



► Catalogue 2013-2015

OUR COMMITMENT MAKES THE DIFFERENCE ►

BACO®

Baco fully committed into the future

A Key player on the market for control and signalling units, cam switches and switch disconnectors, Baco is recognized for its professional expertise and compliance with safety standards. Baco is committed to a quality charter based on the quality and reliability of its numerous and flexible solutions.

CONTROL AND SIGNALLING UNITS

► A wide range

- Excellent modularity for a large choice of combinations with a minimum number of items
- Customised products to meet the most specific needs



CAM SWITCHES

► A reference on the market

- A worldwide reputation of know-how for more than 50 years
- A range from 10 to 250 A (panel mount or enclosed)
- More than 50,000 different electrical diagrams available
- Numerous specific functions and special engravings



SWITCH DISCONNECTORS

► Great flexibility in use

- Compactness
- Infinite number of combinations for customised applications
- Reversible terminal blocks for front or rear mounting saving valuable time during installation



THE BACO QUALITY REQUIREMENT

Our products have a 10-year guarantee and are exceptionally reliable, that is why they are ideal for integration into systems that do not tolerate any failure (military, aeronautical, space exploration, medical research equipment, etc.). Moreover, BACO product ranges offer ingenious and reliable solutions that are fast and easy to implement.

That's why Baco is now providing a 10-year guarantee on all products. This guarantee strengthens the assurance of having a solid and committed brand by your side. With Baco, you can be sure that you have made the right choice.



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NZ11GXQ		155	Q750		273	UF36000		272	172177	222235	299	174179	222275	305
NZ13GQ1		161	Q78		255	UF38		272	172179	222208	296	174189	222276	299
NZ13GXQ		162	Q780		255	UF38000		272	172179	222208	300	174189	222276	302
NZ51BQ1		166	Q91		255	WE40		271	172179	222208	303	174189	222276	305
NZ51BXQ		166	Q91		273	WE41		271	172185	222222	296	174199	222274	299
NZ52BQ1		172	Q93		255	WE43		271	172189	222238	299	174199	222274	302
NZ52BXQ		172	Q93		273	WE45		271	172189	222238	302	174199	222274	305
NZ52CQ1		172	Q95		255	WE47		271	172189	222238	305	174201	222166	291
NZ52CXQ		172	Q95		273	WE60		271	172195	222225	296	174202	222190	292
PC50		270	Q96		273	WE61		271	172199	222239	299	174205	222197	294
PC51		256	Q96GC60		254	WE63		271	172199	222239	302	174249	222269	299
PC51		270	Q96GN60		254	WE65		271	172199	222239	305	174249	222269	302
PC53		256	Q98		255	WE67		271	172200	222140	300	174249	222269	305
PC53		270	SB01AQ1		126	WE70		271	172201	222104	285	174259	222271	299
PC60		270	SB01AXQ		127	WE71		271	172202	222124	286	174259	222271	302
PC61		256	SB02AQ1	227406	126	WE73		271	172221	222114	285	174259	222271	305
PC61		270	SB02AXQ		127	WE75		271	172217	222174	289	174261	222120	295
PC63		256	SB03AQ1	227407	126	WE77		271	172265	222214	300	174269	222273	299
PC63		270	SB03AXQ		127	WE90		271	172267	222270	299	174269	222273	302
PCD50		270	SB03EQ1	227592	126	WE91		271	172267	222270	302	174269	222273	305
PCD51		270	SB04AQ1	227408	126	WE93		271	172267	222270	305	174301	222167	291
PCD53		270	SB04AXQ		127	WE95		271	172275	222204	300	174302	222191	292
PCD60		270	SB04EQ1	227593	126	WR01		259	172277	222272	299	174305	222198	294
PCD61		270	SC01GQ1	227435	139	WR02		259	172277	222272	302	174361	222121	295
PCD63		270	SC01GXQ		140	WR03		259	172277	222272	305	174399	222243	298
PN50		269	SC02GQ1		139	WR04		259	172300	222150	300	174401	222168	291
PN51		256	SC02GXQ		140	ZB01AQ7	227415	128	172301	222105	285	174402	222192	292
PN51		269	SC03GQ1		139	ZB01AXQ		128	172302	222125	286	174405	222199	294
PN53		256	SC03GXQ		140	ZB02AQ7		128	172321	222115	285	174449	222299	299
PN53		269	SC04GQ1	227438	139	ZB02AXQ		128	172361	222175	289	174461	222128	295
PND50		269	SC04GXQ		140	ZB03AQ7	227417	128	172365	222215	300	174501	222169	291
PND51		269	SC51DQ1		148	ZB03AXQ		128	172367	222233	302	174502	222193	292
PND53		269	SC51DXQ		149	ZB03EQ7	227596	128	172375	222205	300	174505	222200	294
Q048		272	SC52DQ1		148	ZB04AQ7	227418	128	172377	222236	302	174559	222285	299
Q064		272	SC52DXQ		149	ZB04AXQ		128	172385	222223	300	174561	222129	294
Q072		272	SC53DQ1		148	ZC01GQ7		141	172395	222226	300	174569	222286	299
Q41		255	SC53DXQ		149	ZC01GXQ		142	172399	222242	298	174599	222284	299
Q41		273	SC54DQ1		148	ZC02GQ7	227446	141	172400	222170	303	174601	222255	297
Q410		255	SC54DXQ		149	ZC02GXQ		142	172401	222106	285	174601	222255	301
Q410		273	SD01AQ1		189	ZC03GQ7		141	172402	222126	286</			

Heads, blocks and connection...

designed to last!



LOCKING
RING

► HEAD

"Cleverly designed to be both ergonomic and clearly visible"

- Insulating material ensures electrical safety
- Integrated anti-rotation tab
- Legend holder frame keeps IP 66 protection
- Optimised ergonomic design
- Choice of bezels: black or chrome plastic
- Innovative and varied functions
- Optimised dimensions

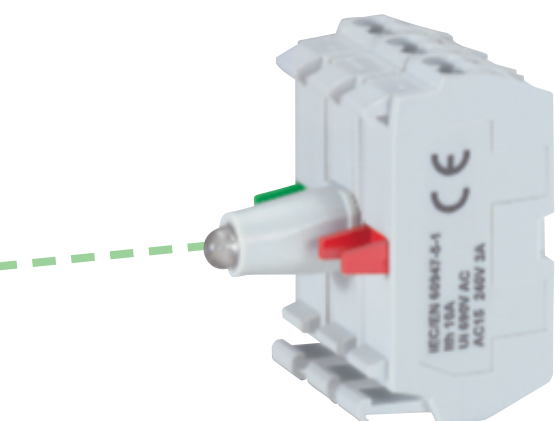
See pages 21 to 46

► CLIP

*"Flexibility of configuration: 1, 3 or 5 position clips
Contact blocks can be assembled in any order..."*

- Enhanced rigidity
- For 1, 3 and 5 blocks
- Blocks are simply snapped onto the clip

See page 65



► BLOCK

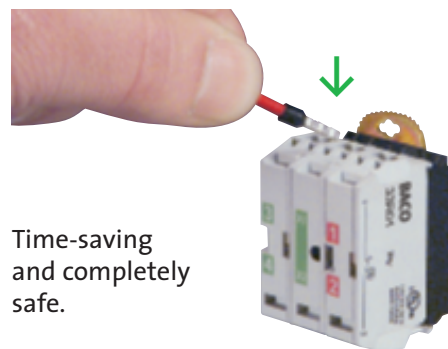
"Imaginatively designed to be safe, robust and durable"

- Securely fixed by clipping into place
- Stackable
- Grade protection: IP20 as "finger safe" on screw and plug-in terminals
- Electrical insulation
- LED blocks combining long life and economy (100,000 hours)
- Corrosion resistant to some chemicals and sea air, etc
- Conform to standard EN/IEC 60947-5-1
- Compliant with RoHS European directive (concerning restriction of hazardous substances)

See pages 48 to 64

► CONNECTION

PLUG-IN TERMINALS - New

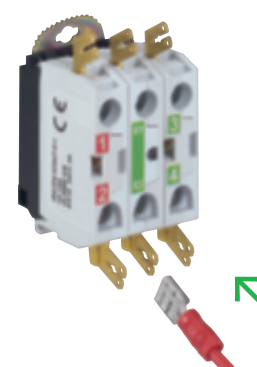


Time-saving and completely safe.

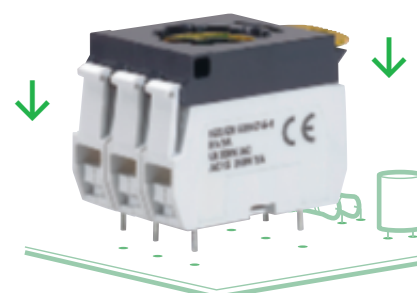
SCREW TERMINALS



FASTON TERMINALS



PIN STYLE TERMINALS (FOR PCB)



New heads...

robust and clearly marked!



► ADVANTAGES

We're full of innovative ideas from listening to your needs, and watching you work

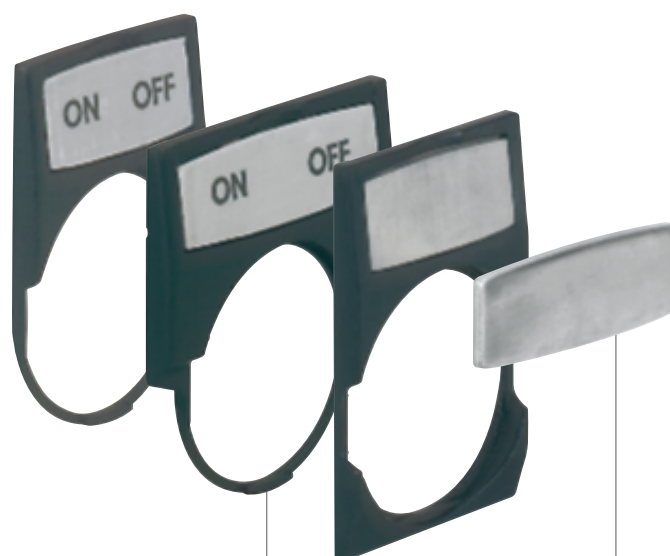
- On all heads, rotation is prevented by a tab which retracts when not required
- Insulating material ensures electrical safety
- Design and shape help avoid build-up of dirt and make the switch easy to clean
- EN 418/ISO 13850 illuminated mushroom head with yellow collar for side-on visual indication
- Optimised ergonomic design
- Innovative functions: illuminated emergency stop mushroom head, etc
- Optimised dimensions: low-profile heads

► MARKING WITH LEGENDS

- Frame can be turned to 4 positions (0° ; 90° ; 180° and 270°)
- Special legend plate for double touch
- Legend plates: choice between 5 colours, blank or pre-engraved



Engraving
Button plate can be mounted in
4 positions (0° ; 90° ; 180° and 270°)



Frame
round or square shape,
30 or 40 mm wide

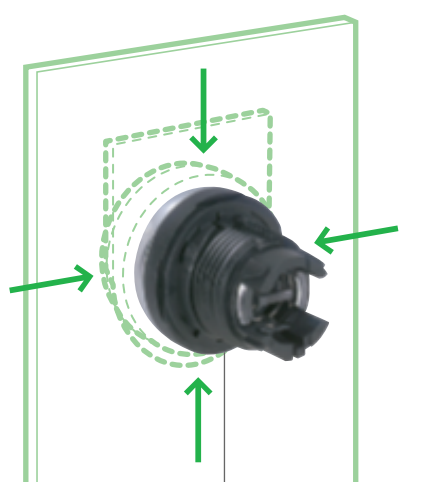
Legend plate
can be clipped into
place after installation

► READY-ASSEMBLED CONTROL STATION

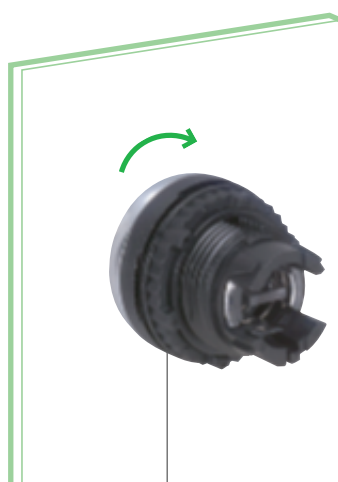
- Innovative design
 - 1, 2 or 3 buttons
- See page 82



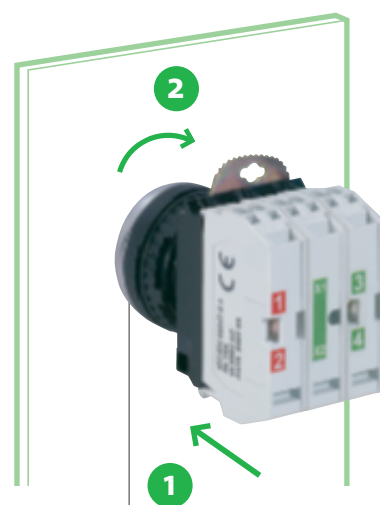
Simplicity, speed, choice!



Auto-grip ring
head held firmly
in the drilling hole
during assembly



Locking ring
to fix the head

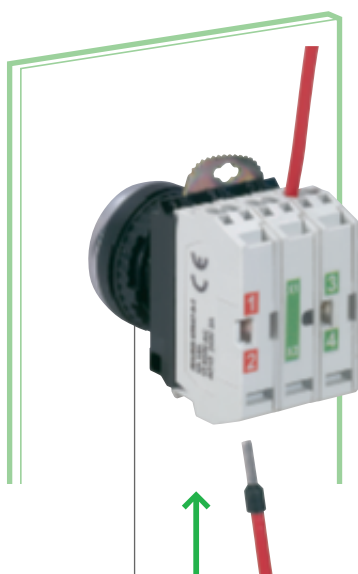


Fixing
Locate block onto head
and lock in place with
rotating metallic latch

► ADVANTAGES

Our objective is to simplify and shorten time of installation:

- Head held firmly in place by auto-grip ring, allows single-hand mounting
- Foolproof method of positioning the block sub-assembly correctly on the head
- Rotating metallic latch easily accessible with a screwdriver where space is limited



Quick connection

No tool required for wires with ferrules.
New plug-in terminals

► CONFIGURATIONS

"A range designed to meet adapt to all requirements and all situations"

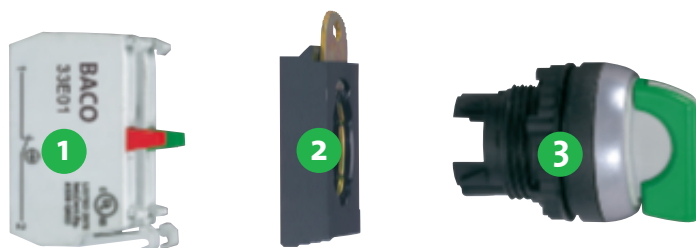
COMPLETE UNITS

- Control and signalling units are supplied ready for use with head and pre-assembled block/clip
- A single product code provides a solution for the most common needs



SEPARATE UNITS

- Maximum flexibility
- For numerous possible solutions



CUSTOMISED SOLUTIONS (request form p. 79)

- Custom assemblies to suit your needs
- The Baco response for specific requirements: pre-assembly, aesthetic design, engraving, etc



Complete units: Push-buttons ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

 Characteristics (p. 94)

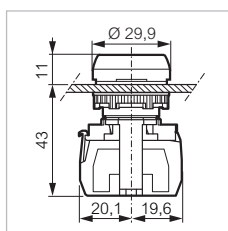
► SPRING RETURN - NON ILLUMINATED

FLUSH

Cat. No.



L21AA02A



Without engraving

- Red
- Green
- Black
- Yellow
- Blue

NC	
NO	
NO	
NO	
NO	

L21AA01B
L21AA02A
L21AA03A
L21AA04C
L21AA06A

With engraving

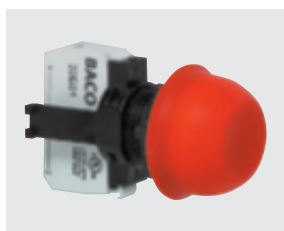
-  Red
-  Green

NC	
NO	

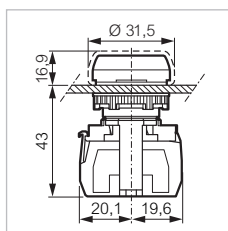
L21AA81B
L21AA82B

FLUSH

Reinforced degree of protection: IP 67



L22AF01A



Supplied with opaque shroud

- Red
- Green
- Black

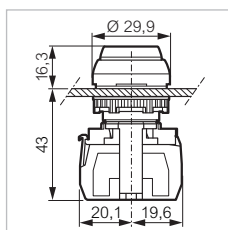
NC	
NO	
NO	

L22AF01A
L22AF02A
L22AF03A

PROJECTING



L21AB01A



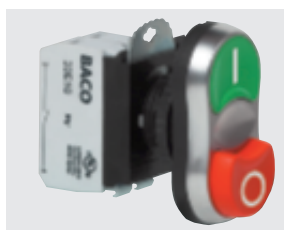
- Red

NC	
----	--

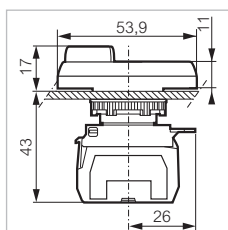
L21AB01A

FLUSH-PROJECTING

Double touch



L61QB21A



-  Green - Flush
-  Red - Projecting

NO		
NC		

L61QB21A

Complete units: Selector switches ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

 Characteristics (p. 94)

► SELECTOR SWITCHES - NON ILLUMINATED

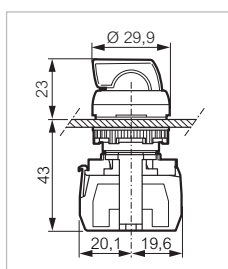
WITH HANDLE

2 positions

Cat. No.

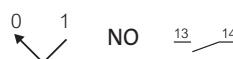


L21KE03B



Stay-put positions - 90°

● Black



NO

13 14

L21KE03B

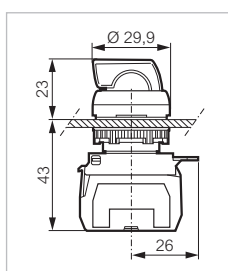
WITH HANDLE

3 positions

Cat. No.

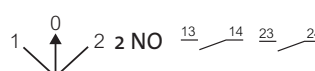


L21MA03A



Stay-put positions - 45°

● Black



2 NO

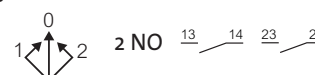
13 14 23 24



L21MA03A

Spring return to 0 - 45°

● Black



2 NO

13 14 23 24



L21MD03A

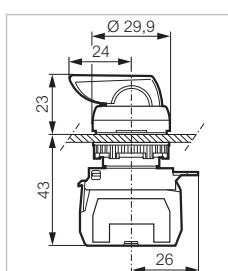
WITH LONG HANDLE

3 positions

Cat. No.



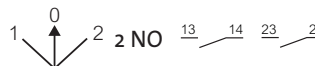
L21MR03A



Kontakt

Stay-put positions - 45°

● Black



2 NO

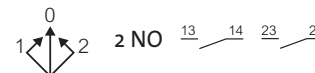
13 14 23 24



L21MR03A

Spring return to 0 - 45°

● Black



2 NO

13 14 23 24



L21MU03B

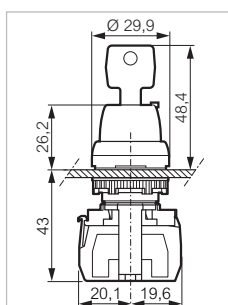
WITH KEY

2 positions

Cat. No.



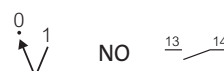
L21LA00G



Supplied with 2 keys profile n°455

Stay-put positions - 45°

Key free
in position 0



NO

13 14

L21LA00G

Complete units: Mushroom heads Ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Conform to IEC 60947-5-1

 Characteristics (p. 94)

► MUSHROOM HEADS - NON ILLUMINATED

Ø 40 - SPRING RETURN

Push

Cat. No.



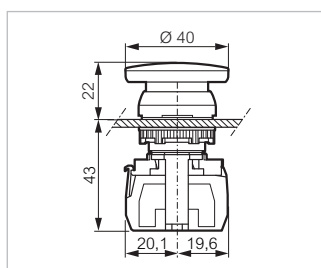
L21AD01C

Plastic chrome bezel
Black bezel on request (form p. 79)

● Red

NC 

L21AD01C



Ø 40 - STAY-PUT

Push-turn to reset

Cat. No.



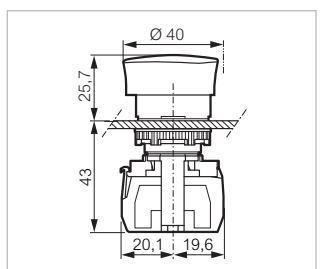
L22ED01D

Black bezel

● Red

NC 

L22ED01D



Complete units: Mushroom heads $\varnothing 22$

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 94)

► MUSHROOM HEADS - NON ILLUMINATED (CONTINUED)

$\varnothing 40$ - STAY-PUT

Push-pull to reset

Cat. No.

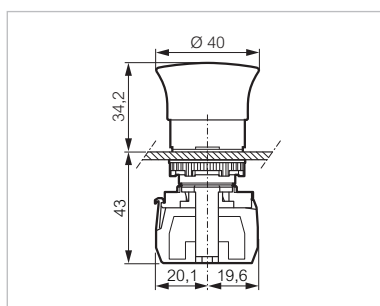


L22DD01A

● Red

NC 

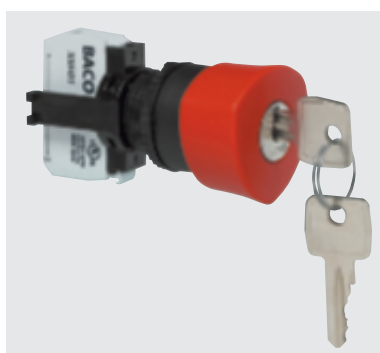
L22DD01A



$\varnothing 40$ - STAY-PUT

Key to reset

Cat. No.



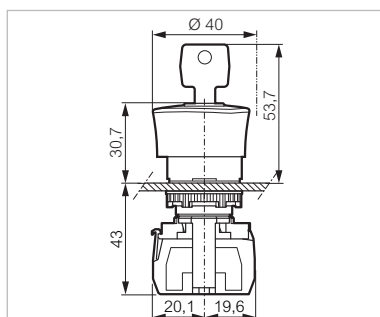
L22GM01E

Supplied with 2 keys profile n°455

● Red

NC 

L22GM01E



Catalogue No. in bold: normally in stock at distribution outlets

Complete units: Mushroom heads ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic black bezel
Conform to IEC 60947-5-1



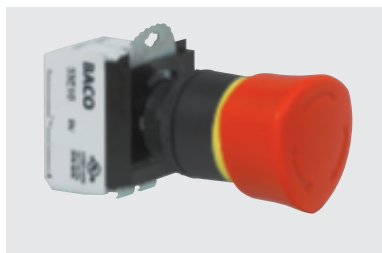
Characteristics (p. 94)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-turn to reset

Cat. No.



L22ER01D

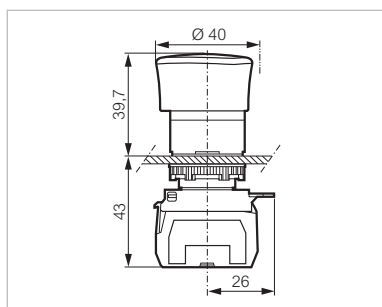
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red

NO + NC



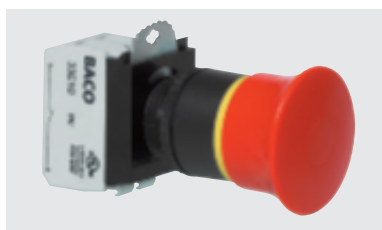
L22ER01D



Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.

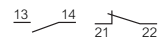


L22DR01B

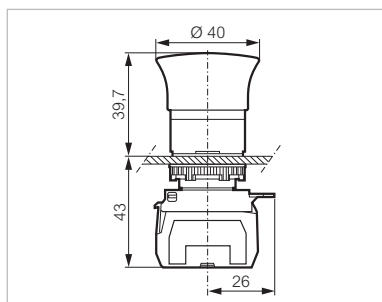
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red

NO + NC



L22DR01B



Complete units: Mushroom heads ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic black bezel
Conform to IEC 60947-5-1



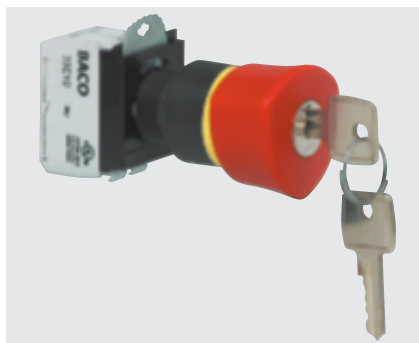
Characteristics (p. 94)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

Ø 40 EN 418/ISO 13850 - STAY-PUT

Key to reset

Cat. No.



L22GR01B

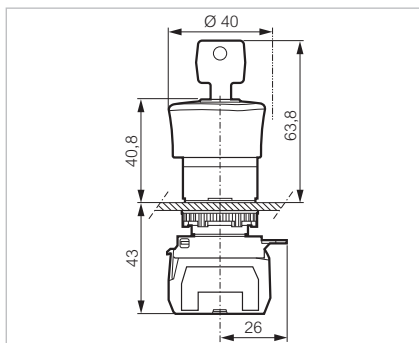
Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850
Supplied with 2 keys profile n°455

● Red

NO + NC



L22GR01B



Ø 54 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator

Cat. No.



L22DU01G

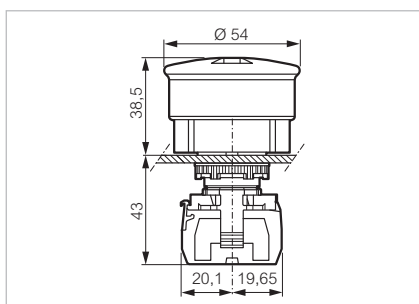
Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850
Flag indicator: Engraving STOP and I

● Red

NC



L22DU01G



Complete units: Pushbuttons ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

 Characteristics (p. 94)

► SPRING RETURN - ILLUMINATED

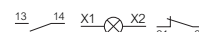
FLUSH

Cat. No.



L21AH20L

LED blocks



24V

- Red
- Green
- Yellow
- White
- Blue

NO+NC
NO+NC
NO+NC
NO+NC
NO+NC

L21AH10L
L21AH20L
L21AH40L
L21AH50L
L21AH60L

130 V

- Red
- Green

NO+NC
NO+NC

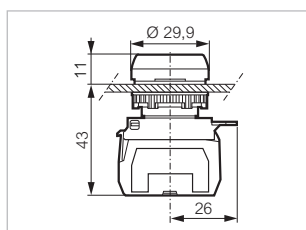
L21AH10M
L21AH20M

230 V

- Red
- Green

NO+NC
NO+NC

L21AH10H
L21AH20H

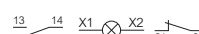


TWIN TOUCH - FLUSH-PROJECTING



L61QK21H

LED blocks
Central part illuminated



24 V

- Green
- Red

NO
NC

L61QK21L

130 V

- Green
- Red

NO
NC

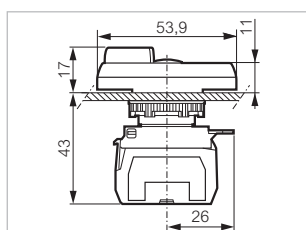
L61QK21M

230 V

- Green
- Red

NO
NC

L61QK21H



Complete units: Selector switches Ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



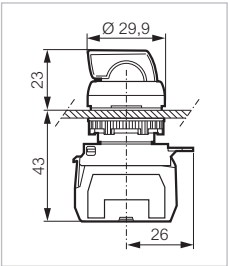
Characteristics (p. 94)

▶ SELECTOR SWITCHES - ILLUMINATED

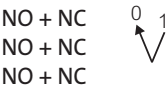
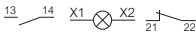
WITH HANDLE	2 positions	Cat. No.
-------------	-------------	----------



L21KG10C



LED blocks
Stay-put positions - 45°
24 V
● Red
● Green
● Black



L21KG10C
L21KG20E
L21KG30B

Complete units: Pilot lights ø 22

IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Conform to IEC 60947-5-1



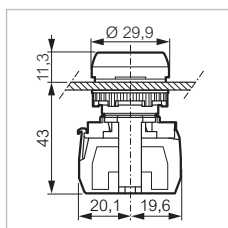
Characteristics (p. 94)

► PILOT LIGHTS

Cat. No.



L20SE20L



LED blocks



24 V

- Red
- Green
- Yellow
- White
- Blue

L20SE10L
L20SE20L
L20SE40L
L20SE50L
L20SE60L

130 V

- Red
- Green
- Yellow
- White
- Blue

L20SE10M
L20SE20M
L20SE40M
L20SE50M
L20SE60M

230V

- Red
- Green
- Yellow
- White
- Blue

L20SE10H
L20SE20H
L20SE40H
L20SE50H
L20SE60H

One-piece pilot lights (p. 45-46)

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
Equipped with a locking ring
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

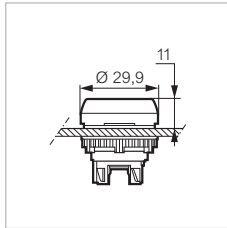
► PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AA02



Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

L21AA01
L21AA02
L21AA03
L21AA04
L21AA05
L21AA06

With engraving

- Red
- Green
- Black

L21AA81
L21AA82
L21AA83

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Black
- Yellow
- White
- Blue

L21AA31 [] [] [] []
L21AA32 [] [] [] []
L21AA33 [] [] [] []
L21AA34 [] [] [] []
L21AA35 [] [] [] []
L21AA36 [] [] [] []

(Other colours and engraving: fill in the form p. 79)

Without button plate

L21AA00

Button plates (see p. 74)



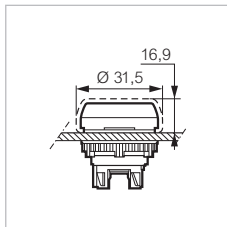
L21AA00

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AF01



Supplied with shroud

Opaque

- Red
- Green
- Black

L22AF01
L22AF02
L22AF03

Transparent

- Yellow
- White
- Blue

L22AG04
L22AG05
L22AG06

Separate units ø 22: Heads

IP 66

To be combined with a clip and electrical blocks (p. 48)

Equipped with a locking ring

Plastic chrome bezel - Black bezel on request (form p. 79)

Conform to IEC 60947-5-1



Characteristics (p. 94)

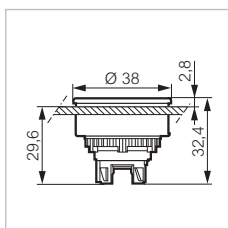
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

SPRING RETURN - SUPER FLUSH

Cat. No.



L23AA02



Metallic chrome bezel
Cut-out ø 30,5 mm

Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

L23AA01
L23AA02
L23AA03
L23AA04
L23AA05
L23AA06

With engraving

- ⊙ Red
- ⓘ Green

L23AA81
L23AA82

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Black
- Yellow
- White
- Blue

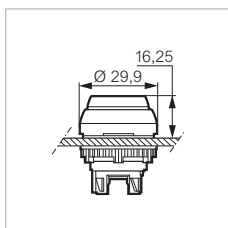
L23AA31□□□
L23AA32□□□
L23AA33□□□
L23AA34□□□
L23AA35□□□
L23AA36□□□

(Other colours and engraving: fill in the form p. 79)

SPRING RETURN - PROJECTING



L21AB01



- Red
- Green
- Black
- Yellow
- White
- Blue

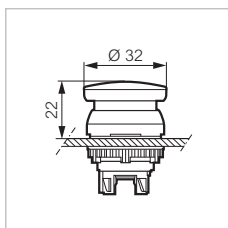
L21AB01
L21AB02
L21AB03
L21AB04
L21AB05
L21AB06

SPRING RETURN - MUSHROOM HEAD Ø 32

Push



L21AC03



- Red
- Green
- Black
- Yellow

L21AC01
L21AC02
L21AC03
L21AC04

Separate units ø 22: Heads

IP 66

To be combined with a clip and electrical blocks (p. 48)

Equipped with a locking ring

Plastic chrome bezel - Black bezel on request (form p. 79)

Conform to IEC 60947-5-1



Characteristics (p. 94)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

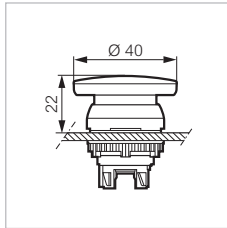
SPRING RETURN - MUSHROOM HEAD Ø 40

Push

Cat. No.



L21AD01



- Red
- Green
- Black
- Yellow
- Blue

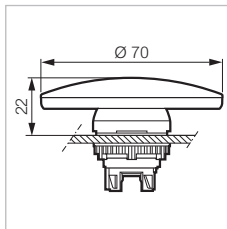
L21AD01
L21AD02
L21AD03
L21AD04
L21AD06

SPRING RETURN - MUSHROOM HEAD Ø 70

Push



L21AE03



- Red
- Black

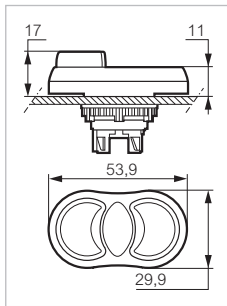
L21AE01
L21AE03

SPRING RETURN - FLUSH-PROJECTING

Double touch



L61QB21



- Green
- Red
- Green engraving START
- Red engraving STOP

L61QB21

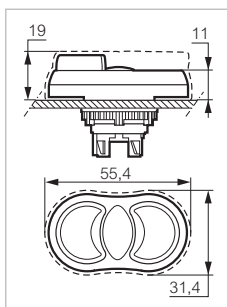
L61QB21B

SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



L62QM21



Supplied with transparent shroud

- Green
- Red

L62QM21

Separate units ø 22: Heads

IP 66

To be combined with a clip and electrical blocks (p. 48)

Equipped with a locking ring

Plastic chrome bezel - Black bezel on request (form p. 79)

Conform to IEC 60947-5-1



Characteristics (p. 94)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

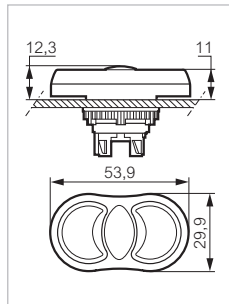
SPRING RETURN - FLUSH-FLUSH

Double touch

Cat. No.



L61QA21



- Green
- Red

L61QA21

- Green engraving ◁||▷
- Green engraving ▷|◁

L61QA22

- Green
- Green

L61QA22K

- Black
- Black

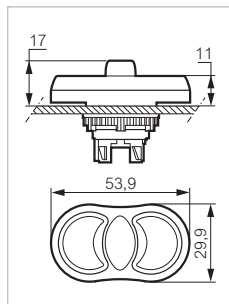
L61QA33C

SPRING RETURN - FLUSH-PROJECTING-FLUSH

Triple touch



L61BA22



- Green
- Red engraving STOP
- Green

L61BA22

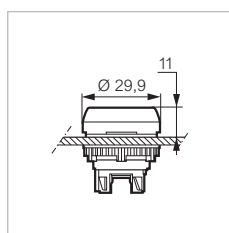
- Green
- Red engraving STOP
- Green

L61BA22B

STAY-PUT - FLUSH



L21CA01



- Red
- Green
- Black
- Yellow
- White
- Blue

L21CA01
L21CA02
L21CA03
L21CA04
L21CA05
L21CA06

Separate units ø 22: Heads

IP 66

To be combined with a clip and electrical blocks (p. 48)

Equipped with a locking ring

Plastic black bezel

Conform to IEC 60947-5-1



Characteristics (p. 94)

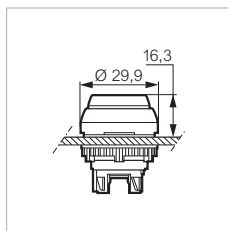
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

STAY-PUT - PROJECTING

Cat. No.



L21CB02



Plastic chrome bezel
Black bezel on request (form p. 79)

- Red
- Green
- Black
- Yellow
- White
- Blue

L21CB01
L21CB02
L21CB03
L21CB04
L21CB05
L21CB06

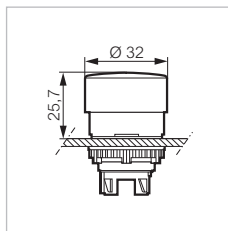
► MUSHROOM HEADS - NON ILLUMINATED

Ø 32 - STAY-PUT

Push-turn to reset



L22EC01



- Red
- Green
- Black
- Yellow

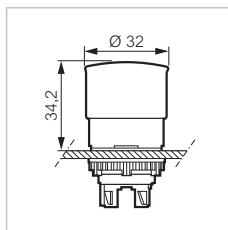
L22EC01
L22EC02
L22EC03
L22EC04

Ø 32 - STAY-PUT

Push-pull to reset



L22DC01



- Red

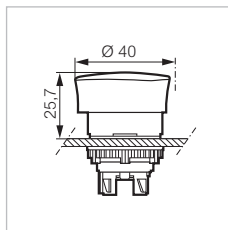
L22DC01

Ø 40 - STAY-PUT

Push-turn to reset



L22ED01



Without engraving

- Red
- Green
- Black
- Yellow

L22ED01
L22ED02
L22ED03
L22ED04

With engraving

- Red - engraving STOP - STOP - STOP

L22ED01B

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
Equipped with a locking ring
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 94)

► MUSHROOM HEAD - NON ILLUMINATED (CONTINUED)

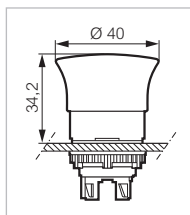
Ø 40 - STAY-PUT

Push-pull to reset

Cat. No.



L22DD01

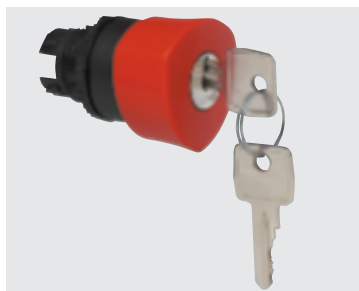


- Red
- Black

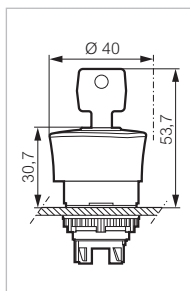
L22DD01
L22DD03

Ø 40 - STAY-PUT

Key to reset



L22GM01



Supplied with 2 keys profile n° 455

- Red

L22GM01

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

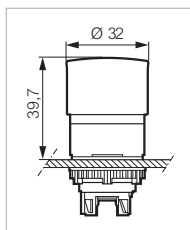
Ø 32 EN 418/ISO 13850 - STAY-PUT

Push-pull

Cat. No.



L22DQ01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

- Red

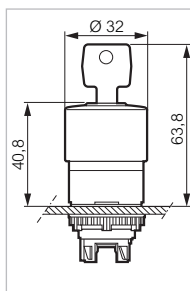
L22DQ01

Ø 32 EN 418/ISO 13850 - STAY-PUT

Key to reset



L22GQ01



Supplied with 2 keys profile n° 455
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

- Red

L22GQ01

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
Equipped with a locking ring
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 94)

► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED (CONTINUED)

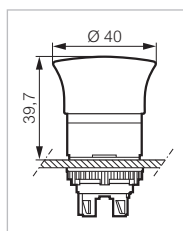
Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



L22DR01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red

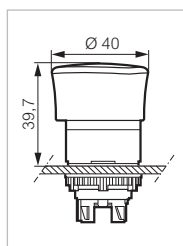
L22DR01

Ø 40 EN 418/ISO 13850 - STAY-PUT

Push-turn to reset



L22ER01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red

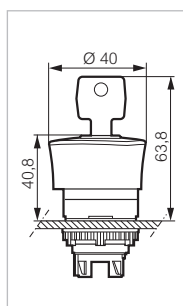
L22ER01

Ø 40 EN 418/ISO 13850 - STAY-PUT

Key to reset



L22GR01



Supplied with 2 keys profile n° 455
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red

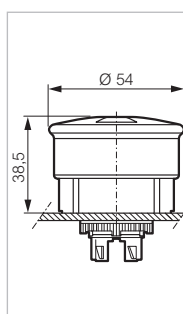
L22GR01

Ø 54 EN 418/ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator



L22DU01



Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red - engraving O - I
● Red - engraving STOP - I

L22DU01A
L22DU01

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
Equipped with a locking ring
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

SELECTOR SWITCHES - NON ILLUMINATED

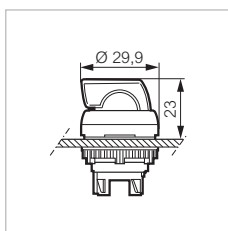
WITH HANDLE

2 positions

Cat. No.



L21KA03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KA01
L21KA02
L21KA03
L21KA08

Spring return - 45°

- Red
- Green
- Black
- Grey



L21KB01
L21KB02
L21KB03
L21KB08

Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KC01
L21KC02
L21KC03
L21KC08

Spring return - 45°

- Red
- Green
- Black
- Grey



L21KD01
L21KD02
L21KD03
L21KD08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey



L21KE01
L21KE02
L21KE03
L21KE08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey



L21KF01
L21KF02
L21KF03
L21KF08

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

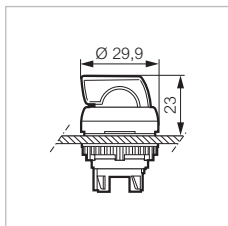
WITH HANDLE

3 positions

Cat. No.



L21MA03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21MA01
L21MA02
L21MA03
L21MA08

Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



L21MB01
L21MB02
L21MB03
L21MB08

Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



L21MC01
L21MC02
L21MC03
L21MC08

Spring return to 0 - 45°

- Red
- Green
- Black
- Grey



L21MD01
L21MD02
L21MD03
L21MD08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey



L21MK01
L21MK02
L21MK03
L21MK08



L21MA08

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

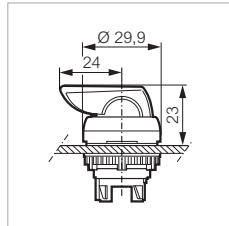
WITH LONG HANDLE

2 positions

Cat. No.



L21KP03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KP01
L21KP02
L21KP03
L21KP08

Spring return - 45°

- Red
- Green
- Black



L21KQ01
L21KQ02
L21KQ03

Stay-put positions - 45°

- Red
- Green
- Black



L21KR01
L21KR02
L21KR03

Spring return - 45°

- Red
- Green
- Black



L21KS01
L21KS02
L21KS03

Stay-put positions - 90°

- Red
- Green
- Black



L21KT01
L21KT02
L21KT03

Stay-put positions - 90°

- Red
- Green
- Black



L21KU01
L21KU02
L21KU03

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

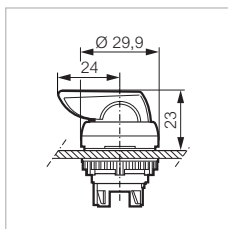
WITH LONG HANDLE

3 positions

Cat. No.



L21MR03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21MR01
L21MR02
L21MR03
L21MR08

Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



L21MS01
L21MS02
L21MS03
L21MS08

Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



L21MT01
L21MT02
L21MT03
L21MT08

Spring return to 0 - 45°

- Red
- Green
- Black
- Grey



L21MU01
L21MU02
L21MU03
L21MU08

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

 Characteristics (p. 94)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

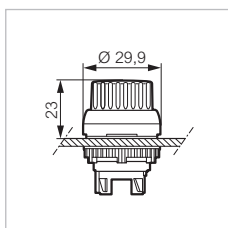
WITH KNOB

2 positions

Cat. No.



L21TF03



Stay-put positions - 45°

- Black



L21TA03

Spring return - 45°

- Black



L21TB03

Stay-put positions - 90°

- Black



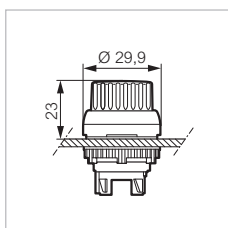
L21TF03

WITH KNOB

3 positions



L21UA03



Stay-put positions - 45°

- Black



L21UA03

Spring return from left to 0 - 45°

- Black



L21UB03

Spring return from right to 0 - 45°

- Black



L21UC03

Spring return to 0 - 45°

- Black



L21UD03

Stay-put positions - 90°

- Black



L21UK03

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

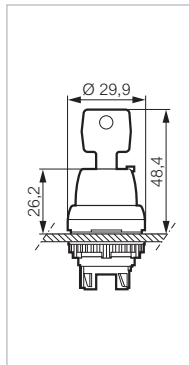
WITH KEY

2 positions

Cat. No.



L21LG00



Key free in position:

Supplied with 2 keys profile n° 455

Stay-put positions - 45°

● Black



0

L21LA00

Spring return - 45°

● Black



0

L21LB00

Stay-put positions - 45°

● Black



0

L21LC00

Spring return - 45°

● Black



0

L21LD00

Stay-put positions - 90°

● Black



0

L21LF00

Stay-put positions - 90°

● Black



0 - 1

L21LG00

Stay-put positions - 90°

● Black



0 - 1

L21LH00

Stay-put positions - 90°

● Black



1

L21LK00

Key profile n° 1424 A and others (form p. 79)

Separate units ø 22: Heads

IP 66

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Black bezel on request (form p. 79)

Conform to IEC 60947-5-1



Characteristics (p. 94)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

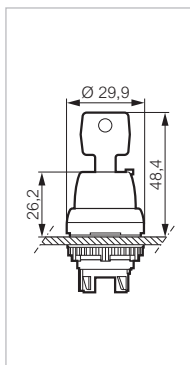
WITH KEY

3 positions

Cat. No.



L21NA00



Key free in position:

Supplied with 2 keys profile n° 455

Stay-put positions - 45°

● Black



0

L21NA00

Spring return from left to 0 - 45°

● Black



0

L21NB00

Spring return from right to 0 - 45°

● Black



0

L21NC00

Spring return to 0 - 45°

● Black



0

L21ND00

Stay-put positions - 45°

● Black



1 - 2

L21NE00

Spring return from right to 0 - 45°

● Black



1

L21NJ00

Stay-put positions - 90°

● Black



1 - 0 - 2

L21NK00

Stay-put positions - 90°

● Black



0

L21NL00

Key profile n° 1424 A and others (form p. 79)

Separate units ø 22: Heads

IP 65
With locking ring
Plastic chrome bezel
Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

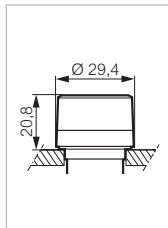
▶ ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21HA01



To be used without electrical block
Stroke 11 mm
Adjustable: 26 mm min to 46 mm max / front side of panel

Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

L21HA01
L21HA02
L21HA03
L21HA04
L21HA05
L21HA06

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

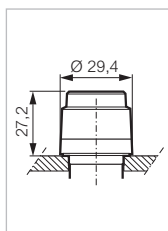
- Red
- Green
- Black
- Yellow
- White
- Blue

L21HA31□□□
L21HA32□□□
L21HA33□□□
L21HA34□□□
L21HA35□□□
L21HA36□□□

SPRING RETURN - PROJECTING



L21HB06



To be used without electrical block
Stroke 11 mm
Adjustable: 26 mm min to 46 mm max / front side of panel

- Red
- Green
- Black
- Yellow
- White
- Blue

L21HB01
L21HB02
L21HB03
L21HB04
L21HB05
L21HB06

Separate units ø 22: Heads

IP 65
With locking ring
Conform to IEC 60947-5-1



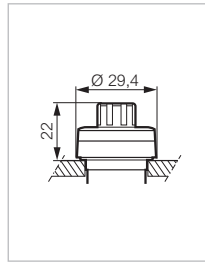
Characteristics (p. 94)

► BUTTON FOR POTENTIOMETER - NON ILLUMINATED

Cat. No.



L21RP03



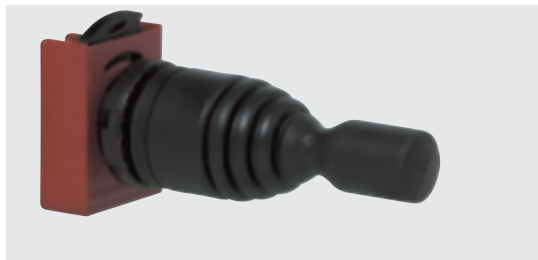
Head + mounting base for potentiometer
Plastic chrome bezel

Shaft ø 6 or 6.35 mm
Potentiometer length 46 to 51 mm

L21RP03

► JOYSTICKS - NON ILLUMINATED

Cat. No.



LM2F

Heads supplied with a 3 position clip
Specific electrical blocks (p. 63)

Head does not lock in position 0

2 directions - 3 positions

2 maintained (stay-put) A - 0 - B
2 spring-return A → 0 ← B

LM2F
LM2A

4 directions - 5 positions

4 maintained (stay-put) A
C - 0 - D
B

LM4F

4 spring-return A
C → 0 ← D
B

LM4A

Head locks in position 0

2 directions - 3 positions

2 maintained (stay-put) A - 0 - B
2 spring-return A → 0 ← B

LMV2F
LMV2A

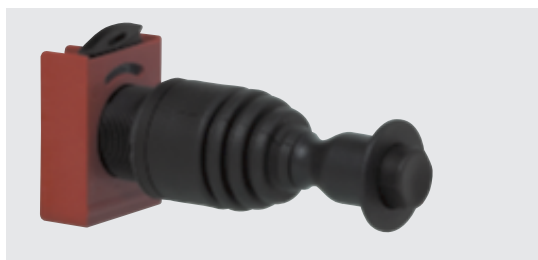
4 directions - 5 positions

4 maintained (stay-put) A
C - 0 - D
B

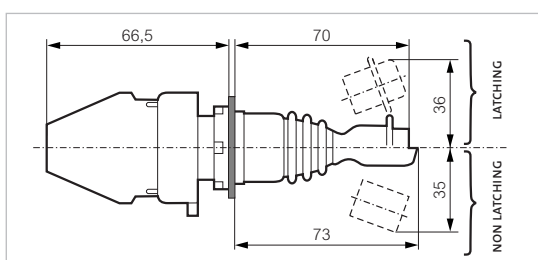
LMV4F

4 spring-return A
C → 0 ← D
B

LMV4A



LMV4F



Catalogue No. in bold: normally in stock at distribution outlets

Separate units ø 22: Heads

IP 66

To be combined with a clip, LED block and contact blocks (p. 48)

With locking ring

Plastic chrome bezel- Black bezel on request (form p. 79)

Conform to IEC 60947-5-1



Characteristics (p. 94)

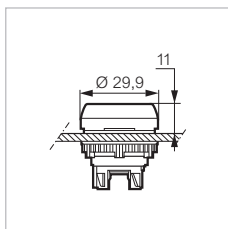
► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AH20



Without engraving

- Red
- Green
- Yellow
- White
- Blue

L21AH10
L21AH20
L21AH40
L21AH50
L21AH60

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L21AH31□□□
 L21AH32□□□
 L21AH34□□□
 L21AH35□□□
 L21AH36□□□

Without button plate

L21AH00

Button plates (p. 74)



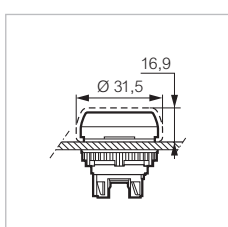
L21AH00

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AP40



Supplied with transparent shroud

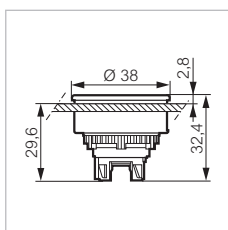
- Red
- Green
- Yellow
- White
- Blue

L22AP10
L22AP20
L22AP40
L22AP50
L22AP60

SPRING RETURN - SUPER FLUSH



L23AH10



Metallic chrome bezel

Drilling ø 30,5 mm

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L23AH10
L23AH20
L23AH40
L23AH50
L23AH60

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L23AH31□□□
 L23AH32□□□
 L23AH34□□□
 L23AH35□□□
 L23AH36□□□

Catalogue No. in bold: normally in stock at distribution outlets

Separate units ø 22: Heads

IP 66

To be combined with a clip, LED block and contact blocks (p. 48)

With locking ring

Plastic chrome bezel

Black bezel on request (form p. 79)

Conform to IEC 60947-5-1



Characteristics (p. 94)

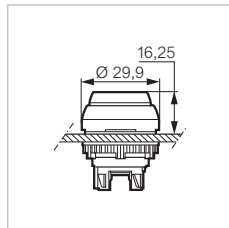
► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

SPRING RETURN - PROJECTING

Cat. No.



L21AK20



- Red
- Green
- Yellow
- White
- Blue

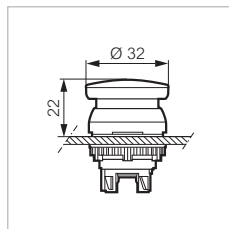
L21AK10
L21AK20
L21AK40
L21AK50
L21AK60

SPRING RETURN - MUSHROOM HEAD Ø 32

Push



L21AL10



- Red
- Green
- Yellow
- White

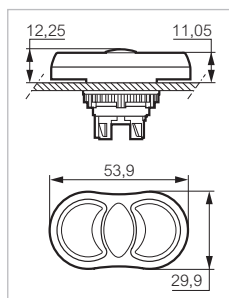
L21AL10
L21AL20
L21AL40
L21AL50

SPRING RETURN - FLUSH-FLUSH

Double touch



L61QH21



Central part illuminated

- Green
- Red
- Green
- Green
- Green engraving START
- Red engraving STOP

L61QH21

L61QH22V

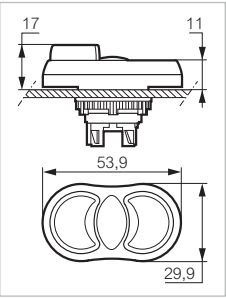
L61QH21A

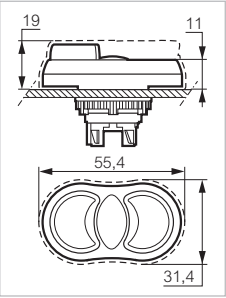
Separate units ø 22: Heads

IP 66
To be combined with a clip, LED block and contact blocks (p. 48)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

 Characteristics (p. 94)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

SPRING RETURN - FLUSH-PROJECTING	Double touch	Cat. No.
		Central part illuminated
	 Green	L61QK21
	 Red	
	 White	L61QK53
	 Black	
	 Green engraving START	L61QK21A
	 Red engraving STOP	

SPRING RETURN - FLUSH-PROJECTING	Double touch - reinforced degree of protection: IP 67	
		Supplied with transparent shroud Central part illuminated
	 Green	L62QN21
	 Red	

Separate units ø 22: Heads

IP 66
To be combined with a clip, LED block and contact blocks (p. 48)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

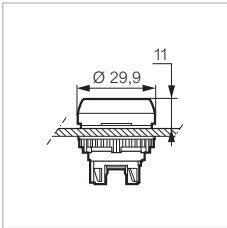
 Characteristics (p. 94)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

STAY-PUT - FLUSH	Réf.
------------------	------



L21CH20



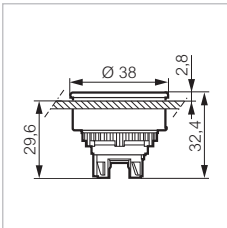
- Red
- Green
- Yellow
- White
- Blue

- L21CH10**
- L21CH20**
- L21CH40**
- L21CH50**
- L21CH60**

STAY-PUT - SUPER FLUSH



L23CH10



Metallic chrome bezel
Drilling ø 30,5 mm

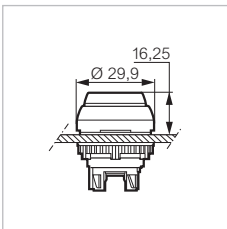
- Red
- Green
- Yellow
- White
- Blue

- L23CH10**
- L23CH20**
- L23CH40**
- L23CH50**
- L23CH60**

STAY-PUT - PROJECTING



L21CK20



- Red
- Green
- Yellow
- White
- Blue

- L21CK10**
- L21CK20**
- L21CK40**
- L21CK50**
- L21CK60**

Separate units ø 22: Heads

IP 66
To be combined with a clip, LED block and contact blocks (p. 48)
With locking ring
Black bezel
Conform to IEC 60947-5-1



Characteristics (p. 94)

► MUSHROOM HEADS - ILLUMINATED

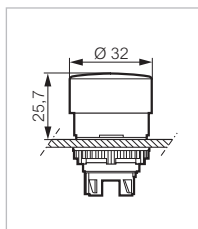
Ø 32 - STAY-PUT

Push-turn to reset

Cat. No.



L22EL10



• Red

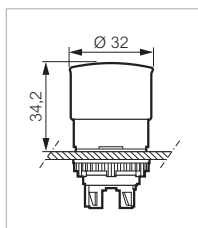
L22EL10

Ø 32 - STAY-PUT

Push-pull to reset



L22DL10



• Red

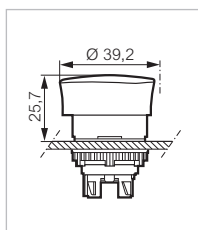
L22DL10

Ø 40 - STAY-PUT

Push-turn to reset



L22EM10



• Red
• Green
• Yellow

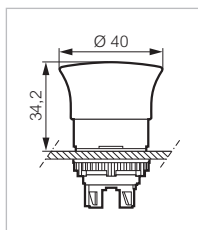
L22EM10
L22EM20
L22EM40

Ø 40 - STAY-PUT

Push-pull to reset



L22DM10



• Red
• Green
• Yellow
○ White

L22DM10
L22DM20
L22DM40
L22DM50

Separate units ø 22: Heads

IP 66

To be combined with a clip, LED block and contact blocks (p. 48)

With locking ring

Plastic chrome bezel - Black bezel on request (form p. 79)

Conform to IEC 60947-5-1



Characteristics (p. 94)

► EN 418/ISO 13850 EMERGENCY STOP - ILLUMINATED

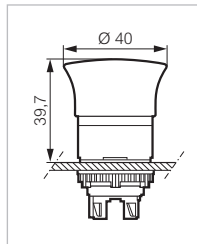
Ø 40 EN 418/ISO 13850- STAY-PUT

Push-pull to reset

Cat. No.



L22DN10



Black bezel

Head position visible from the side with yellow collar

Compliant with the requirements of emergency stop:

IEC 60947-5-5 / EN 418/ISO 13850

● Red

L22DN10

► SELECTOR SWITCHES - ILLUMINATED

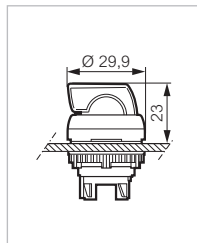
WITH HANDLE

2 positions

Cat. No.



L21KJ30



Stay-put positions - 45°

● Red
● Green
● Black



L21KG10
L21KG20
L21KG30

Spring return- 45°

● Red
● Green
● Black



L21KH10
L21KH20
L21KH30

Stay-put positions - 45°

● Red
● Green
● Black



L21KJ10
L21KJ20
L21KJ30

Spring return- 45°

● Red
● Green
● Black



L21KK10
L21KK20
L21KK30

Stay-put positions - 90°

● Red
● Green
● Black



L21KL10
L21KL20
L21KL30

Stay-put positions - 90°

● Red
● Green
● Black



L21KM10
L21KM20
L21KM30

Catalogue No. in bold: normally in stock at distribution outlets

Separate units ø 22: Heads

IP 66
To be combined with a clip, LED block and contact blocks (p. 48)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1



Characteristics (p. 94)

SELECTOR SWITCHES - ILLUMINATED

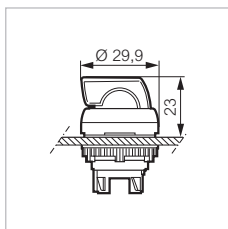
WITH HANDLE

3 positions

Cat. No.



L21ME10



Stay-put positions - 45°

- Red
- Green
- Black



L21ME10
L21ME20
L21ME30

Spring return from left to 0 - 45°

- Red
- Green
- Black



L21MF10
L21MF20
L21MF30

Spring return from right to 0 - 45°

- Red
- Green
- Black



L21MG10
L21MG20
L21MG30

Spring return to 0 - 45°

- Red
- Green
- Black



L21MH10
L21MH20
L21MH30

Stay-put positions - 90°

- Red
- Green
- Black



L21MJ10
L21MJ20
L21MJ30

Separate units ø 22: Heads

IP 66
To be combined with a clip, LED block and contact blocks (p. 48)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

 Characteristics (p. 94)

► SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

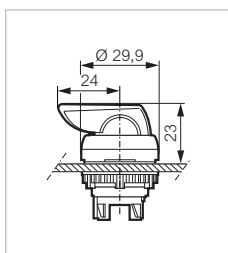
WITH LONG HANDLE

2 positions

Cat. No



L21KV30



Stay-put positions - 45°

- Black



L21KV30

Stay-put positions - 45°

- Black



L21KX30

Spring return - 45°

- Black



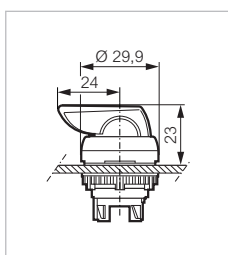
L21KY30

WITH LONG HANDLE

3 positions



L21ML30



Stay-put positions - 45°

- Black



L21ML30

Spring return from left to 0 - 45°

- Black



L21MM30

Spring return from right to 0 - 45°

- Black



L21MN30

Spring return to 0 - 45°

- Black



L21MP30

Pilot lights ø 22

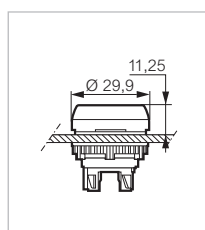
IP 66
To be combined with a clip, LED block (p. 51)
With locking ring
Conform to IEC 60947-5-1

 Characteristics (p. 94)

► PILOT LIGHTS - SEPARATE UNITS



L20SE20



To be combined with a clip and LED block (p. 51)

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SE10
L20SE20
L20SE40
L20SE50
L20SE60

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

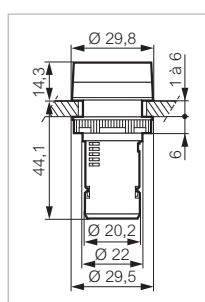
- Red
- Green
- Yellow
- White
- Blue

L20SE31|_|_|_|
L20SE32|_|_|_|
L20SE34|_|_|_|
L20SE35|_|_|_|
L20SE36|_|_|_|

► ONE-PIECE PILOT LIGHTS



L20SA40



To be used with BA9S bulbs (not supplied)
Direct supply
To be used without electrical block

Without engraving

Ribbed lens

- Red
- Green
- Colourless
- Yellow
- White
- Blue

L20SA10
L20SA20
L20SA30
L20SA40
L20SA50
L20SA60

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

Smooth lens

- Red
- Green
- Colourless
- Yellow
- White
- Blue

L20SA31|_|_|_|
L20SA32|_|_|_|
L20SA33|_|_|_|
L20SA34|_|_|_|
L20SA35|_|_|_|
L20SA36|_|_|_|

Pilot lights ø 22

IP 66
Direct supply



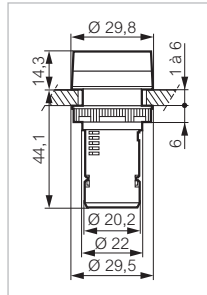
Characteristics (p. 94)

► ONE-PIECE PILOT LIGHTS (CONTINUED)

Cat. No.



L20SA10M



Supplied with LED bulb-type BA9S
Smooth lens

24V

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SA10L
L20SA20L
L20SA40L
L20SA50L
L20SA60L

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- Colourless
- Blue

L20SA31L□□□□
L20SA32L□□□□
L20SA34L□□□□
L20SA33L□□□□
L20SA36L□□□□

130V

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SA10M
L20SA20M
L20SA40M
L20SA50M
L20SA60M

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- Colourless
- Blue

L20SA31M□□□□
L20SA32M□□□□
L20SA34M□□□□
L20SA33M□□□□
L20SA36M□□□□

230V

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SA10H
L20SA20H
L20SA40H
L20SA50H
L20SA60H

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- Colourless
- Blue

L20SA31H□□□□
L20SA32H□□□□
L20SA34H□□□□
L20SA33H□□□□
L20SA36H□□□□

Block holder clips for assembly as you require

1, 3 or 5-position clips

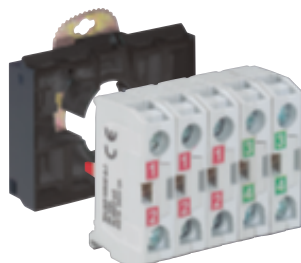
► CLIP

"A flexible configuration for assembly in any order..."

► 3 BLOCKS



► 5 BLOCKS



► MODULAR

Stacking without accessories



- Snap fit, tools not required to attach contact blocks
- Cost effective solution: 1 position clip
- Blocks can be stacked on 2 levels, up to 3 blocks wide
- Blocks can be assembled in any order (except pilot light)
- Optimised dimensions: reduced depth of blocks

► BLOCK

"Imaginatively designed to be safe, robust and durable"

► MATERIAL

- IP20 as "finger safe"
- Electrical insulation
- Corrosion-resistant



► ENVIRONMENT

- Respect for the environment, RoHS compliant



- LED blocks: combine long life and economy
- Corrosion resistant to some chemicals and sea air, etc
- Conform to standard IEC 60947-5-1
- Conform to RoHS European directive concerning restriction of hazardous substances

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS

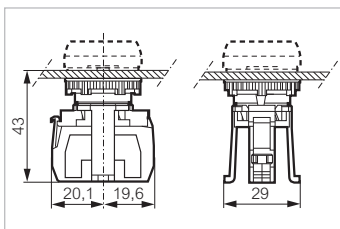
SCREW TERMINALS

1 position clip

Cat. No.



331E10



NO

13 14

331E10

NC

21 22

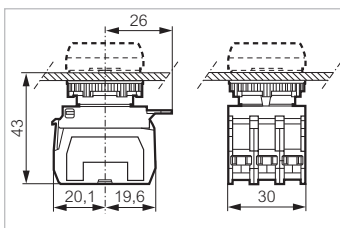
331E01

SCREW TERMINALS

3 position clip



333E21



NO

13 14

333E10

NC

21 22

333E01

2 NO

13 14

23 24

333E20

2 NC

11 12

21 22

333E02

NO + NC

13 14

21 22

333E11

3 NO

13 14

33 34

23 24

333E30

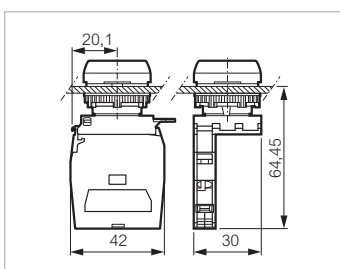
3 NC

11 12

31 32

21 22

333E03



NO/NC

2 NO + NC

13 14

33 34

21 22

333E21

NO + 2 NC

13 14

31 32

21 22

333E12

NO/NC

12 11

14 13

22 21

334E11

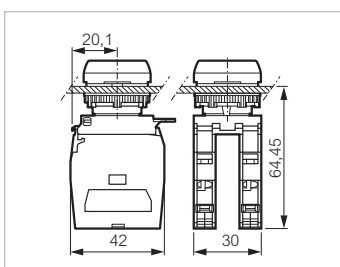
2 NO/NC

12 11

14 13

22 21

334E22



2 NO/NC

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

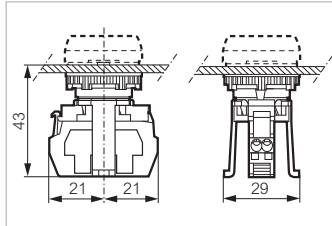
PLUG-IN TERMINALS

1 position clip

Cat. No.



331ER01



NO

13 14

331ER10

NC

21 22

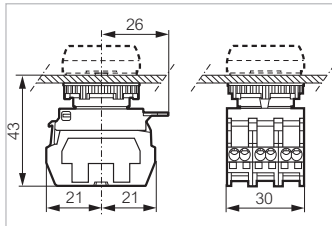
331ER01

PLUG-IN TERMINALS

3 position clip



333ER11



NO

13 14

333ER10

NC

21 22

333ER01

2 NO

13 14

23 24

333ER20

2 NC

11 12

21 22

333ER02

NO+NC

13 14

21 22

333ER11

3 NO

13 14

33 34

23 24

333ER30

3 NC

11 12

31 32

21 22

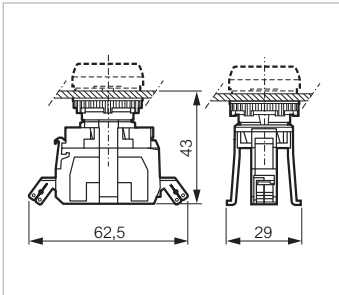
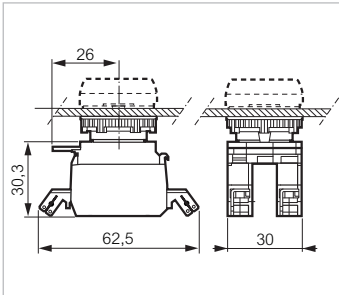
333ER03

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1

 Characteristics (p. 94)

▶ CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

FASTON TERMINALS		1 position clip		Cat. No.
		NO		331ED10
		NC		331ED01
FASTON TERMINALS		3 position clip		
		NO + NC		333ED11

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS

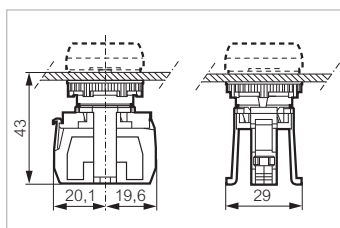
SCREW TERMINALS

1 position clip: LED block

Cat. No.



331EAGL



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

331EAWL
331EARL
331EAGL
331EABL
331EAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331EAWM
331EARM
331EAGM
331EABM
331EAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

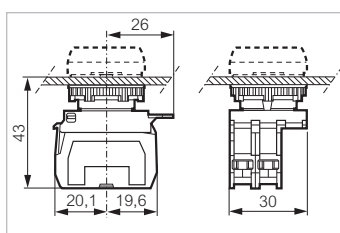
331EAWH
331EARH
331EAGH
331EABH
331EAYH

SCREW TERMINALS

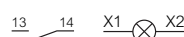
3 position clip: NO + LED block



333EAWM10



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL10
333EARL10
333EAGL10
333EABL10
333EAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM10
333EARM10
333EAGM10
333EABM10
333EAYM10

230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH10
333EARH10
333EAGH10
333EABH10
333EAYH10

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

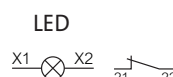
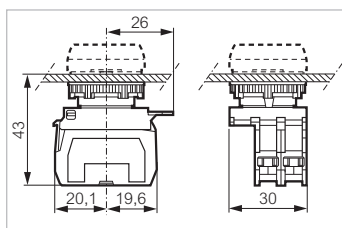
SCREW TERMINALS

3 position clip: LED block + NC

Cat. No.



333EAWL01



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL01
333EARL01
333EAGL01
333EABL01
333EAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM01
333EARM01
333EAGM01
333EABM01
333EAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

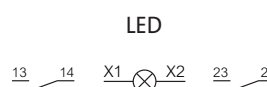
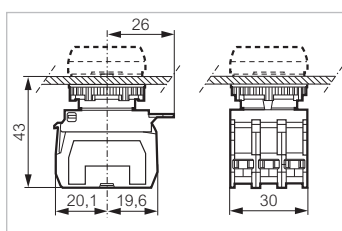
333EAWH01
333EARH01
333EAGH01
333EABH01
333EAYH01

SCREW TERMINALS

3 position clip: NO + LED block + NO



333EARL20



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL20
333EARL20
333EAGL20
333EABL20
333EAYL20

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM20
333EARM20
333EAGM20
333EABM20
333EAYM20

230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH20
333EARH20
333EAGH20
333EABH20
333EAYH20

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

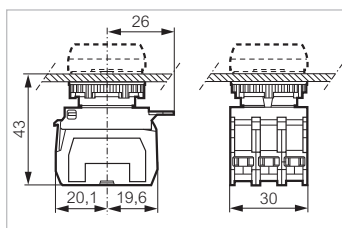
SCREW TERMINALS

3 position clip: NO + LED block + NC

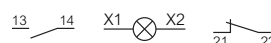
Cat. No.



333EARL11



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL11
333EARL11
333EAGL11
333EABL11
333EAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM11
333EARM11
333EAGM11
333EABM11
333EAYM11

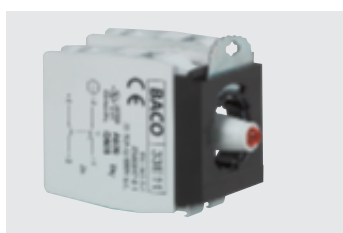
230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH11
333EARH11
333EAGH11
333EABH11
333EAYH11

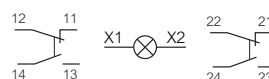
SCREW TERMINALS

3 position clip: NO/NC + LED block + NO/NC



334EARL22

LED



24 V

- White
- Red
- Green
- Blue
- Yellow

334EAWL22
334EARL22
334EAGL22
334EABL22
334EAYL22

130 V

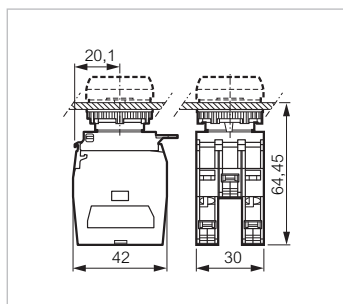
- White
- Red
- Green
- Blue
- Yellow

334EAWM22
334EARM22
334EAGM22
334EABM22
334EAYM22

230 V

- White
- Red
- Green
- Blue
- Yellow

334EAWH22
334EARH22
334EAGH22
334EABH22
334EAYH22



Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

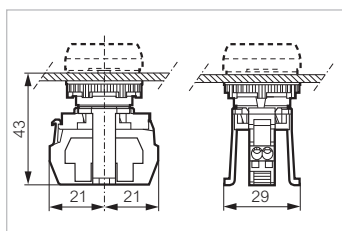
PLUG-IN TERMINALS

1 position clip: LED block

Cat. No.



331ERAGH



24 V

- White
- Red
- Green
- Blue
- Yellow

331ERAWL
331ERARL
331ERAGL
331ERABL
331ERAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331ERAWM
331ERARM
331ERAGM
331ERABM
331ERAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

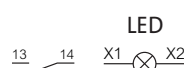
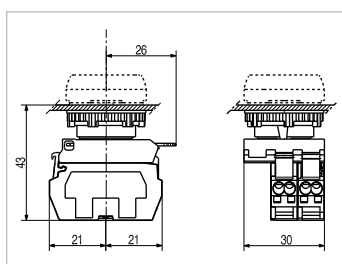
331ERAWH
331ERARH
331ERAGH
331ERABH
331ERAYH

PLUG-IN TERMINALS

3 position clip: NO + LED block



333ERAGL10



24 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWL10
333ERARL10
333ERAGL10
333ERABL10
333ERAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWM10
333ERARM10
333ERAGM10
333ERABM10
333ERAYM10

230 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWH10
333ERARH10
333ERAGH10
333ERABH10
333ERAYH10

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

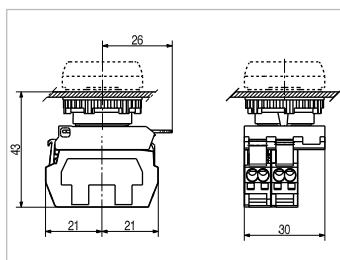
PLUG-IN TERMINALS

3 position clip: LED block + NC

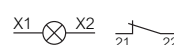
Cat. No.



333ERAGH01



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWL01
333ERARL01
333ERAGL01
333ERABL01
333ERAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWM01
333ERARM01
333ERAGM01
333ERABM01
333ERAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

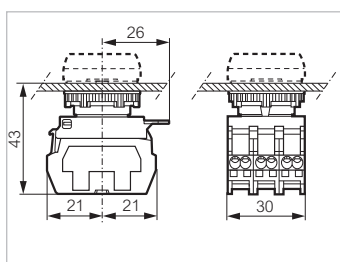
333ERAWH01
333ERARH01
333ERAGH01
333ERABH01
333ERAYH01

PLUG-IN TERMINALS

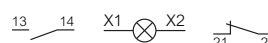
3 position clip: NO + LED block + NC



333ERAGH11



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWL11
333ERARL11
333ERAGL11
333ERABL11
333ERAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWM11
333ERARM11
333ERAGM11
333ERABM11
333ERAYM11

230 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWH11
333ERARH11
333ERAGH11
333ERABH11
333ERAYH11

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



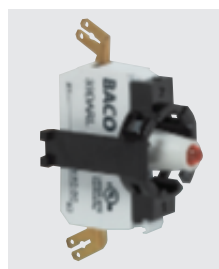
Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

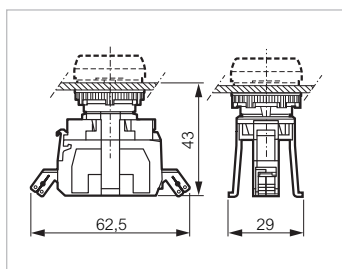
FASTON TERMINALS

1 position clip: LED block

Cat. No.



331EDARL



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

331EDAWL
331EDARL
331EDAGL
331EDABL
331EDAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331EDAWM
331EDARM
331EDAGM
331EDABM
331EDAYM

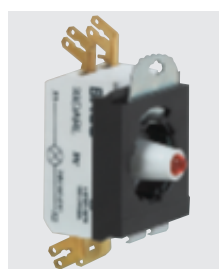
230 V

- White
- Red
- Green
- Blue
- Yellow

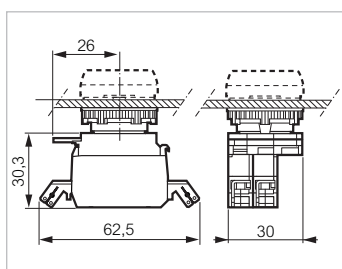
331EDAWH
331EDARH
331EDAGH
331EDABH
331EDAYH

FASTON TERMINALS

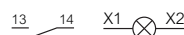
3 position clip: NO + LED block



333EDARL10



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWL10
333EDARL10
333EDAGL10
333EDABL10
333EDAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWM10
333EDARM10
333EDAGM10
333EDABM10
333EDAYM10

230 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWH10
333EDARH10
333EDAGH10
333EDABH10
333EDAYH10

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1



Characteristics (p. 94)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

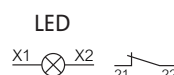
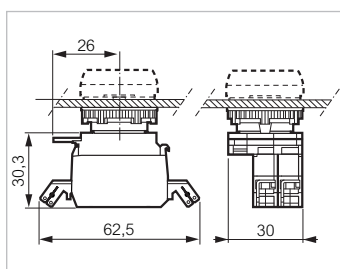
FASTON TERMINALS

3 position clip: LED block + NC

Cat. No.



333EDARM01



24 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWL01
333EDARL01
333EDAGL01
333EDABL01
333EDAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWM01
333EDARM01
333EDAGM01
333EDABM01
333EDAYM01

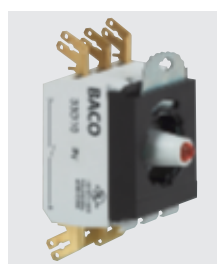
230 V

- White
- Red
- Green
- Blue
- Yellow

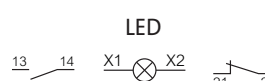
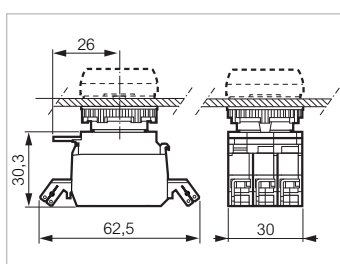
333EDAWH01
333EDARH01
333EDAGH01
333EDABH01
333EDAYH01

FASTON TERMINALS

3 position clip: NO + LED block + NC



333EDARL11



24 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWL11
333EDARL11
333EDAGL11
333EDABL11
333EDAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWM11
333EDARM11
333EDAGM11
333EDABM11
333EDAYM11

230 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWH11
333EDARH11
333EDAGH11
333EDABH11
333EDAYH11

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)



Characteristics (p. 94)

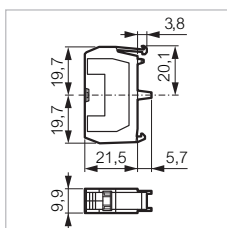
CONTACT BLOCKS

SCREW TERMINALS

Cat. No.



33E10



NO



33E10

NC



33E01

NO/NC



33E11

**Golden contacts
for low current**

NO



33E10Y7

NC



33E01Y7

Contact with delayed opening

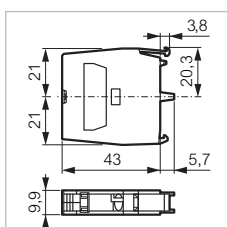
NC



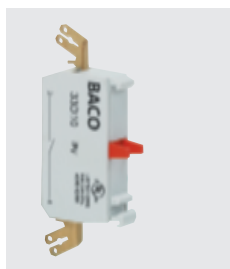
33E01C



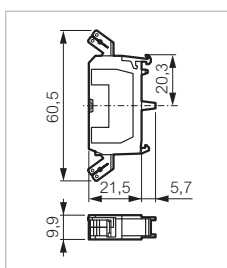
33E11



FASTON TERMINALS



33D01



NO



33D10

NC

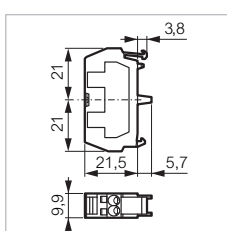


33D01

PLUG-IN TERMINALS



33R01



NO



33R10

NC



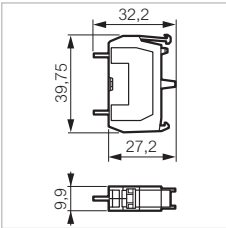
33R01

Separate units: Blocks

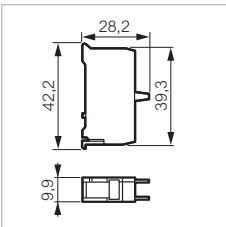
IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)

▶ CONTACT BLOCKS (CONTINUED)

FOR PCB (PIN-STYLE TERMINALS)				Cat. No.
		NO		33P10
		NC		33P01
		Golden contacts for low current		
		NO		33P10Y7
		NC		33P01Y7

FOR CONTROL STATIONS (SCREW TERMINALS)

		For un-equipped control stations (p. 86) Base mounted		
		NO		33S10
		NC		33S01

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)



Characteristics (p. 94)

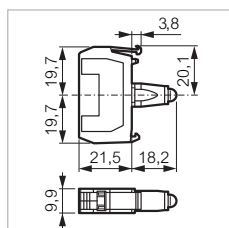
► LED BLOCKS

SCREW TERMINALS

Cat. No.



33EARL



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

33EAWL
33EARL
33EAGL
33EABL
33EAYL

48 V

- White
- Red
- Green
- Blue
- Yellow

33EAWL4
33EARL4
33EAGL4
33EABL4
33EAYL4

130 V

- White
- Red
- Green
- Blue
- Yellow

33EAWM
33EARM
33EAGM
33EABM
33EAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

33EAWH
33EARH
33EAGH
33EABH
33EAYH

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

 Characteristics (p. 94)

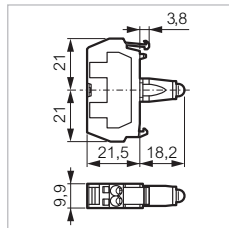
► LED BLOCKS (CONTINUED)

PLUG-IN TERMINALS

Cat. No.



33RAGH



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

33RAWL
33RARL
33RAGL
33RABL
33RAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

33RAWM
33RARM
33RAGM
33RABM
33RAYM

230 V

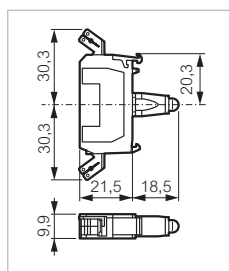
- White
- Red
- Green
- Blue
- Yellow

33RAWH
33RARH
33RAGH
33RABH
33RAYH

FASTON TERMINALS



33DARL



LED



24 V

- White
- Red
- Green
- Blue
- Yellow

33DAWL
33DARL
33DAGL
33DABL
33DAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

33DAWM
33DARM
33DAGM
33DABM
33DAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

33DAWH
33DARH
33DAGH
33DABH
33DAYH

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)



Characteristics (p. 94)

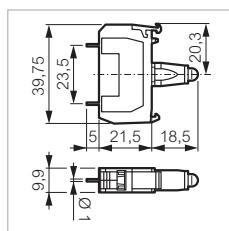
► LED BLOCKS (CONTINUED)

FOR PCB (PIN STYLE)

Cat. No.



33PAWL



LED



24 V

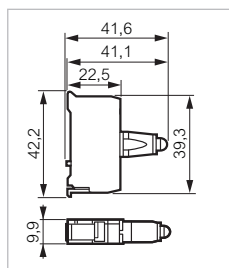
- White
- Red
- Green
- Blue
- Yellow

33PAWL
33PARL
33PAGL
33PABL
33PAYL

FOR CONTROL STATIONS (SCREW TERMINALS)



33SAGH



For un-equipped control stations (p. 86)
Base mounted

LED



24 V

- White
- Red
- Green
- Blue
- Yellow

33SAWL
33SARL
33SAGL
33SABL
33SAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

33SAWM
33SARM
33SAGM
33SABM
33SAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

33SAWH
33SARH
33SAGH
33SABH
33SAYH

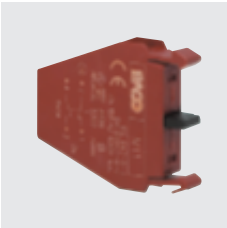
Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

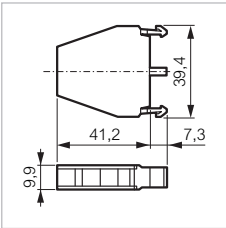
 Characteristics (p. 94)

► SPECIFIC BLOCKS

FOR JOYSTICKS (SCREW TERMINALS) Cat. No.



LM11



Joysticks (p. 36)

NO - NC

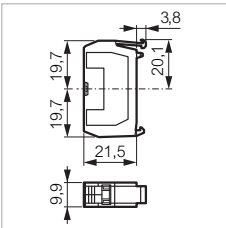


LM11

LAMP-TEST BLOCKS (SCREW TERMINALS)

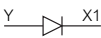


33ET



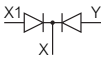
For 24 and 48 V

1 diod



33ET

2 diods



33ETT

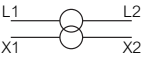
For 130 and 230 V (form p. 79)

TRANSFORMER BLOCKS (SCREW TERMINALS)

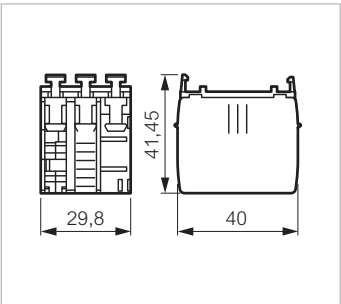


33EHC

230/24 V
400/24V



33EHC
33ELC



Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)



Characteristics (p. 94)

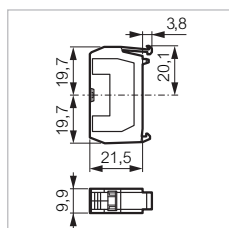
► SPECIFIC BLOCKS

FILTER BLOCKS (SCREW TERMINALS)

Cat. No.

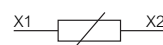


33EFH



Prevents from voltage peaks for LED block
To be wired in parallel of with the LED block

130 V
230 V

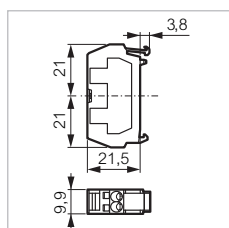


33EFM
33EFH

FILTER BLOCKS (PLUG-IN TERMINALS)



33RFH



Prevents from voltage peaks for LED block
To be wired in parallel of the LED block

130 V
230 V

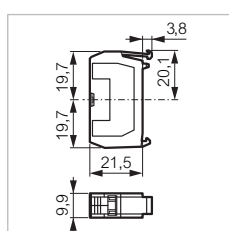


33RFM
33RFH

JUNCTION BLOCK (SCREW TERMINALS)



33EY



2 interconnected
terminals

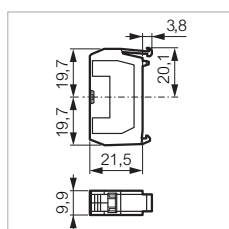


33EY

EMPTY BLOCK



33EX



For empty positions on 3 or 5 position clip

33EX

Accessories



Characteristics (p. 94)

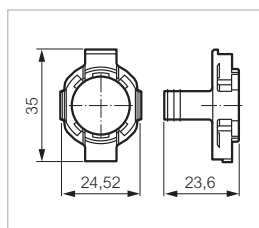
CLIPS

CLIPS

Cat. No.



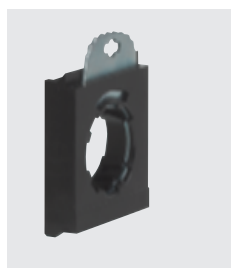
331E



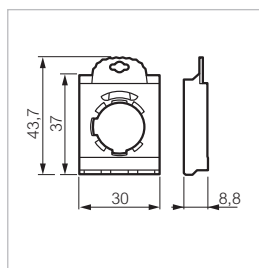
To be combined with blocks (p. 58 to 64)

1 position

331E



333E

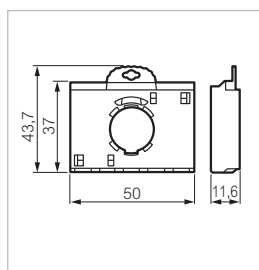


3 positions

333E



335E



5 positions (only for $\varnothing$ 22 heads)

335E

ROUND LEGEND PLATE

FOR MUSHROOM HEAD

Cat. No.



LWE16300

Yellow, black engraving

$\varnothing$ 60

ARRET D'URGENCE

NOT AUS

EMERGENCY STOP

LWE16100

LWE16200

LWE16300

$\varnothing$ 80

ARRET D'URGENCE

NOT AUS

EMERGENCY STOP

LWE00100

LWE00200

LWE00300

Other languages (form p. 79)

Accessories ø 22



Characteristics (p. 94)

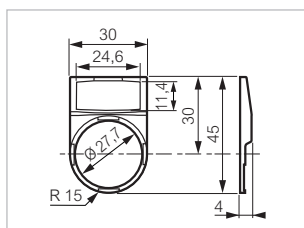
► COMPLETE FRAMES

Standard model - 30 x 45 mm

Cat. No.



LWP31



Round shape
Black frame and legend plate unassembled
2 lines maximum, 13 characters per line

Without engraving

- White
- Red
- Alu
- Black

LWP35
LWP31
LWP39
LWP33

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- White
- Red
- Alu
- Black

LWP35[] [] [] []
LWP31[] [] [] []
LWP39[] [] [] []
LWP33[] [] [] []

Protective mask for legend plate (paper or other ...)

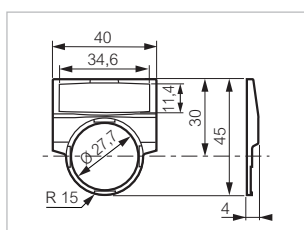
- Transparent

LWP37

Large model - 40 x 45 mm



LWG33



Round shape
Black frame and legend plate unassembled
2 lines maximum, 18 characters per line

Without engraving

- White
- Red
- Alu
- Black

LWG35
LWG31
LWG39
LWG33

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- White
- Red
- Alu
- Black

LWG35[] [] [] []
LWG31[] [] [] []
LWG39[] [] [] []
LWG33[] [] [] []

Protective mask for legend plate (paper or other ...)

- Transparent

LWG37

Accessories ø 22



Characteristics (p. 94)

► LEGEND PLATES

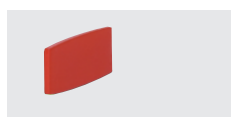
TO BE ENGRAVED

Standard model

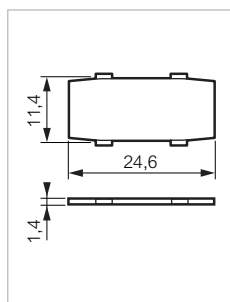
Cat. No.



LIA5



LIA1



2 lines maximum
13 characters per line
For round and square frames cat. nos. LWP3, LWP4 et LWP2 (p. 69)

Without engraving

- ☐ White
- ☒ Red
- ☐ Alu
- ☒ Black

LIA5
LIA1
LIA9
LIA3

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- ☐ White - black engraving
- ☒ Red - white engraving
- ☐ Alu - black engraving
- ☒ Black - white engraving

LIA5□□□
LIA1□□□
LIA9□□□
LIA3□□□

Protective mask for legend plate (paper or other ...)

- ☐ Transparent

LIA7

TO BE ENGRAVED

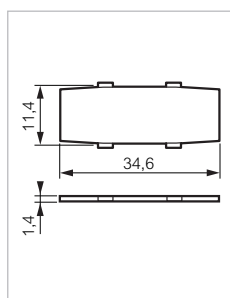
Large model



LIB9



LIB3



2 lines maximum
18 characters per line
For round frame cat. no. LWG3 (p. 69)

Without engraving

- ☐ White
- ☒ Red
- ☐ Alu
- ☒ Black

LIB5
LIB1
LIB9
LIB3

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

- ☐ White - black engraving
- ☒ Red - white engraving
- ☐ Alu - black engraving
- ☒ Black - white engraving

LIB5□□□
LIB1□□□
LIB9□□□
LIB3□□□

Protective mask for legend plate (paper or other ...)

- ☐ Transparent

LIB7

Accessories ø 22



Characteristics (p. 94)

▶ LEGEND PLATES

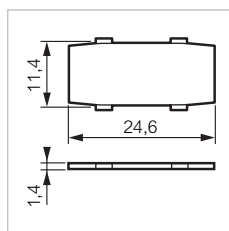
ENGRAVED

Small model

Cat. No.



LIA9081



Alu legend plate, black engraving
For round and square frames cat. nos. LWP3, LWP4 et LWP2 (p. 69)

With standard engraving

O-I	LIA9081
I-II	LIA9082
I-O-II	LIA9091
MANU-O-AUTO	LIA9191
HAND-O-AUTO	LIA9291
START	LIA9301
ON	LIA9303
OFF	LIA9304
RESET	LIA9315
RUN	LIA9327
HAND-AUTO	LIA9383

On demand engraving (p. 70)

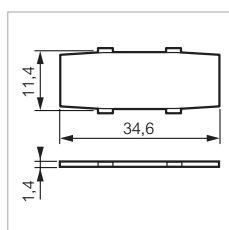
Symbol code to be added at the end of the catalogue number LIA9□□□

ENGRAVED

Large model



LIB9382



Alu legend plate, black engraving
For round frame cat. no. LWG3 (p. 69)

OFF-ON	LIB9382
O-I-START	LIB9093

Accessories ø 22



Characteristics (p. 94)

FRAMES

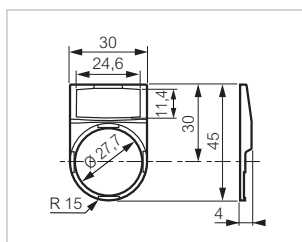
ROUND

Standard model

Cat. No.



LWP3



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

● Black

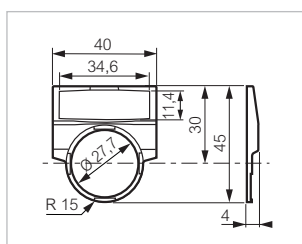
LWP3

ROUND

Large model



LWG3



For legend plates cat. nos. LIB5, LIB1, LIB 9, LIB 3 (p. 67)

● Black

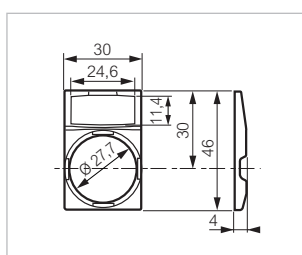
LWG3

SQUARE

Standard model



LWP4



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

● Black

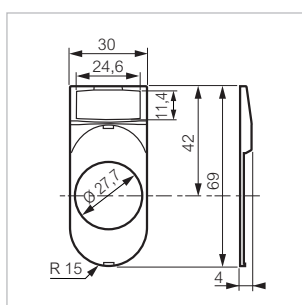
LWP4

FOR DOUBLE AND TRIPLE TOUCH

Standard model



LWP2



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

● Black

LWP2

Engravings

Symbol code to be added at the end of the catalogue number

STANDARD TEXTS

UNIVERSAL TEXT

Cat. No.

For selector switches and legend plates

O-I	081
I-II	082
I-O-II	091
I-II-III	092
O-I-START	093
O-I-II	094

ENGLISH TEXT

For buttons, pilot lights and legend plates

CLOSE	314
DOWN	336
FAST	310
FORWARD	305
INCH	329
JOG	328
LEFT	311
LOWER	308
OFF	304
ON	303
OPEN	313
POWER-ON	330
RAISE	307
RESET	315
REVERSE	306
RIGHT	312
RUN	327
SLOW	309
START	301
STOP	302
UP	335

For selector switches and legend plates

FORW.-OFF-REV.	392
HAND-AUTO	383
HAND-OFF-AUTO	391
LOCAL-OFF-REMOTE	393
OFF-ON	382
STOP-START	381

Engravings

Symbol code to be added at the end of the catalogue number

► STANDARD TEXTS (CONTINUED)

GERMAN TEXT

Cat. No.

For buttons, pilot lights and legend plates

AB	208
AUF	207
AUS	204
BETRIEB	224
BREMSSEN	225
EIN	203
EINRICHTEN	223
FEINHEBEN	221
FEINSENKEN	222
HALT	202
HEBEN	219
LANGSAM	209
LINKS	211
RECHTS	212
RÜCKWÄRTS	206
SENKEN	220
SCHNELL	210
VORWÄRTS	205
VORRÜCKEN	226
ZU	214

For selector switches and legend plates

AUS-EIN	281
HAND-AUTO	283
HAND-O-AUTO	291
ZURÜCK-O-VOR	292

FRENCH TEXT

For buttons, pilot lights and legend plates

ALARME	133
ARRÊT	102
ARRÊT GÉNÉRAL	116
ARRIÈRE	106
AVANT	105
DÉCLENCHEMENT	131
DÉFAUT	132
DESCENTE	108
DROITE	112
EN SERVICE	103
FERMETURE	114
GAUCHE	111
HORS SERVICE	104
KLAXON	118
LENT	109
MARCHE	101
MONTÉE	107
OUVERTURE	113
RÉARMEMENT	115
SOUS TENSION	117
VITE	110

For selector switches and legend plates

ARRÊT-MARCHE	181
AVANT -O- ARRIÈRE	192
C.P.C.-NORMAL	184
HORS-EN	182
MANU-AUTO	183
MANU -O- AUTO	191

Symbols

Symbol code to be added at the end of the catalogue number

STANDARD SYMBOLS ISO/DIN

Description	Symbol	Cat. No.
Continuous straight-line movement ISO 1		A01
Alternating straight-line movement ISO 5		A05
Continuous rotating movement clockwise ISO 7A - DIN 100		A07
Continuous rotating mov. anti-clockwise ISO 7B		B07
Forward ISO 16		A16
Increase in value ISO 28		A28
Decrease in value ISO 29		A29
Adjustable ISO 62		A62
Clamp, block apply pressure ISO 63A		A63
Clamp, block apply pressure ISO 63B		B63
Unclamp, release ISO 64A		A64
Unclamp, release ISO 64B		B64
Brake ISO 65		A65
Release brake ISO 66		A66
Automatic cycle (or semi-automatic) ISO 67		A67
Manual control ISO 68		A68
"ON" close circuit ISO 69		A69
"STOP" close circuit ISO 70		A70
ON/OFF close + open circuit ISO 71		A71
Close circuit manual impulse ISO 72		A72
Clutch ISO 74 - DIN 46		A74

Symbols

Symbol code to be added at the end of the catalogue number

STANDARD SYMBOLS ISO/DIN (CONTINUED)

Description	Symbol	Cat. No.
De-clutch ISO 75 - DIN 45		A75
Warning "live" (energized) ISO 92 - DIN 131		A92
Main switch ISO 94		A94
Lubrication jet ISO 101		C01
Machine lighting ISO 102 - DIN 139		C02
Greasing ISO 107 - DIN 175		C07
Blow ISO 108 - DIN 263		C08
Suction ISO 109 - DIN 264		C09
Sound alarm DIN 155		D01

ADDITIONAL STANDARD SYMBOLS

Symbol	Cat. No.
	B01
	E01
	F01
	B62
	E62
	F62
	003
	004
	005

Accessories ø 22

 Characteristics (p. 94)

▶ BUTTON PLATES - FOR HEADS WITHOUT BUTTON PLATE

NON ILLUMINATED Cat. No.



LT05

For use with spring return button cat. no. L21AA00 (p. 21)

Without engraving

● Red	LT01
● Green	LT02
● Black	LT03
● Yellow	LT04
○ White	LT05
● Blue	LT06



LT21302

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

● Red	LT21□□□□
● Green	LT22□□□□
● Black	LT23□□□□
● Yellow	LT24□□□□
○ White	LT25□□□□
● Blue	LT26□□□□

ILLUMINATED



LT20

For use with spring return button cat. no. L21AH00 (p. 37)

Without engraving

● Red	LT10
● Green	LT20
● Yellow	LT40
○ White	LT50
● Blue	LT60



LT34308

On demand engraving (p. 70)

Symbol code to be added at the end of the catalogue number

● Red	LT31□□□□
● Green	LT32□□□□
● Yellow	LT34□□□□
○ White	LT35□□□□
● Blue	LT36□□□□

Accessories ø 22



Characteristics (p. 94)

► SHROUDS - REINFORCED DEGREE OF PROTECTION: IP 67

FOR PUSH-BUTTONS PROJECTING

Cat. No.



LWA0203

For spring return or stay-put buttons

○ Transparent

LWA0228

For non illuminated spring return buttons

● Red opaque

● Green opaque

● Black opaque

LWA0203

LWA0204

LWA0205

FOR PUSH-BUTTONS FLUSH



LWA0253

For spring return or stay-put buttons

○ Transparent

LWA0255

For non illuminated spring return buttons

● Red opaque

● Green opaque

● Black opaque

LWA0251

LWA0252

LWA0253

DOUBLE TOUCH



LWA0223

For double touch flush-projecting and triple touch

○ Transparent

LWA0223

Accessories ø 22

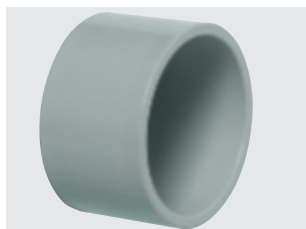


Characteristics (p. 94)

MISCELLANEOUS

GUARD

Cat. No.



LWA0225

For spring return button and spring return mushroom head
(maxi ø 40)

- Grey

LWA0225

PADLOCKABLE GUARD



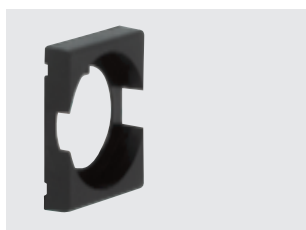
LWA0240

For stay-put mushroom head
● Yellow

High (Height: 40 mm)

LWA0240

SQUARE FRAME



LWA0230

For turning a round shape button or a pilot light into
a square shape

- Black

LWA0230

RELAY TERMINAL (EARTH OR NEUTRAL)



LWA0216

For control station
Base mounted

LWA0216

Accessories ø 22



Characteristics (p. 94)

► MISCELLANEOUS (CONTINUED)

BULBS		Cat. No.
	For one-piece pilot light with direct supply Bulb BA9S (see p. 45) Neon 230 V For red, yellow, white pilot light	LWDN230

BULB EXTRACTOR		
	For BA9S bulbs	LWA0201

ANTI-ROTATION RING		
	For selector switches	LWA0237

BLANKING PLUG		
	● Black ● Grey	LWA0229 LWA0215

Accessories ø 22



Characteristics (p. 94)

► MISCELLANEOUS (CONTINUED)

FIXING TOOL

Cat. No.

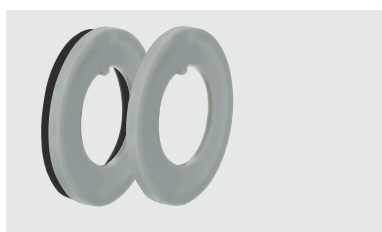


LWA0234

Fixing tool for locking ring

LWA0234

REDUCTION RING Ø 30/22



LWA0219

Converts ø 30 mm cut-out to 22 mm hole

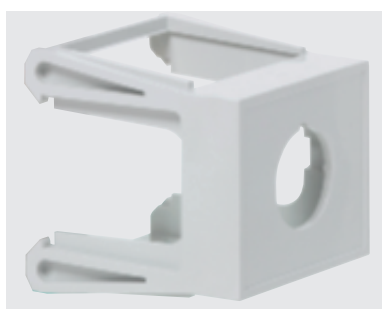
● Grey

LWA0219

● Yellow

LWA0220

PUSH BUTTON SUPPORT CLIP-ON TO DIN RAIL



LWA0238

For pilot lights, spring return buttons and selector switches

LWA0238

PADLOCKABLE SHROUD



LWA0226

For spring return push-buttons

LWA0226

▶ BLOCKS AND CLIPS

Options :

- ☐ Illuminated button
 - ☐ EN 418/ISO 13850 emergency stop
 - ☐ IP 67 shroud
 - ☐ Black frame
 - ☐ Guard for buttons
 - ☐ Guard for mushroom heads
- Size (mm):**
- Mushroom head ☐ Ø 32
☐ Ø 40
☐ Ø 70
- Colour :**
- | | |
|-------------------------------------|--------------------------------|
| ☐ Colourless | ☐ Green |
| ☐ Black | ☐ Red |
| ☐ White | ☐ Blue |
| ☐ Yellow | |

Bezel :

- ☐ black
- ☐ matt chromed

▶ ENGRAVINGS

Fill in the grid (see below)

- ☐ **on head**
 - ☐ standard text or symbol
 - ☐ other text
(2 x 8 characters)
 - ☐ **on legend plate :**
 - ☐ standard
(2 x 13 characters)
 - ☐ large model
(2 x 18 characters)
- Ground colour:
- ☐ white
 - ☐ red
 - ☐ alu
 - ☐ black

Type of block

- ① NO
- ② NC
- ③ NO/NC
- ④ Transformer
- ⑤ Filter
- ⑥ Junction
- ⑦ Empty
- ⑧ Lamp-test
- ⑨ LED

Voltage: ☐ 24 V
☐ 130 V
☐ 230 V

Colour: ☐ red
☐ green
☐ yellow
☐ white
☐ blue

Connection :

- ☐ Screw
- ☐ Faston
- ☐ Plug-in
- ☐ Pin-Style (for PCB)

Clips :

- 1 position

1
- 3 positions

1	3	2
- 5 positions

5	1	3	2	4
- 6 positions

1	3	2

Options :

- ☐ Head, block and clip assembled

YOUR DETAILS

Company:

Name and surname:.....

Address:

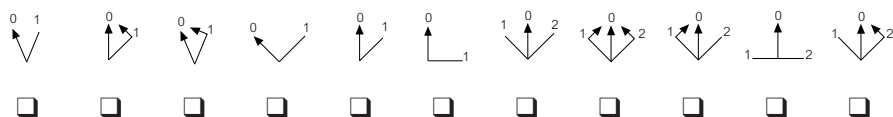
E-mail :

Tel.:

Fax:

COMMENTS

▶ SELECTOR SWITCHES' SWITCHING ANGLE



Key free in position : ☐ 0 ☐ 1 ☐ 2 ☐ other (attach diagram)

ENGRAVING

[illegible]

Control stations

solution boxes



**Control stations with
mushroom heads**
pre-assembled



Control stations with buttons
1, 2 or 3 buttons

► ADVANTAGES

"All types of control station applications can be achieved"

- Multipurpose, pre-equipped with mushroom head or pushbuttons
- Enclosures for custom assembly 1,2,3,4 or 5 holes
- Up to 3 blocks per position
- Innovative design



Enclosures
1, 2, 3, 4 or 5 holes

► SPECIAL REQUEST

Custom assemblies and engraving options



See page 90

Control stations ø 22

IP 66
Base mounted contact- screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 66)
Special engraving on enclosure and mounting (form p. 90)



Characteristics (p. 94)

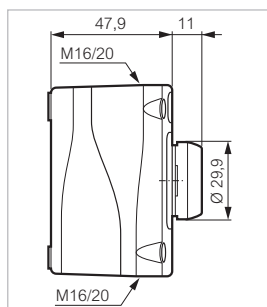
► CONTROL STATIONS WITH 1 BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



LBX10110



● Green

NO

$\frac{13}{21} \frac{14}{22}$

Marking

ⓘ

LBX10110

● Red

NC

$\frac{21}{21} \frac{22}{22}$

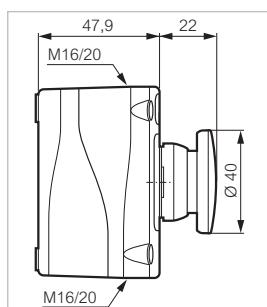
⊙

LBX10610

MUSHROOM HEAD Ø 40 - SPRING RETURN



LBX10210



● Red

NC

$\frac{21}{21} \frac{22}{22}$

Marking

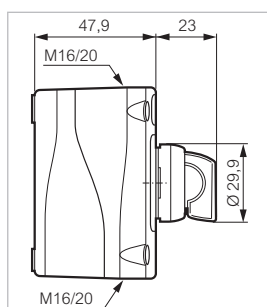
⊙

LBX10210

SELECTOR SWITCH - WITH HANDLE



LBX12510



2 stay-put positions - 45°

● Black

NO

$\frac{13}{21} \frac{14}{22}$

Marking

○

LBX12510

Control stations ø 22

IP66
Base mounted contact-screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 66)
Special marking and mounting (form p. 90)



Characteristics (p. 94)

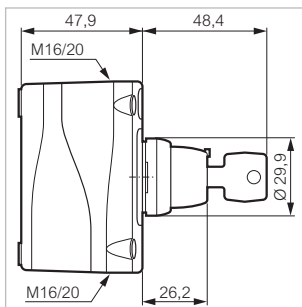
▶ CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

SELECTOR SWITCH - WITH KEY

Cat. No.



LBX12610



Supplied with 2 keys profile n° 455

2 stay-put positions - 45°
Key free in position 0-1

● Black NO 13 14

Marking

○
I

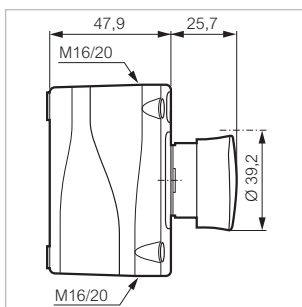
LBX12610

MUSHROOM HEAD ø 40 - STAY-PUT

Push-turn to reset



LBX10510



● Red NC 21 22
● Red NC 21 22
● Red NC 21 22

ARRÊT D'URGENCE
NOT AUS
EMERGENCY STOP

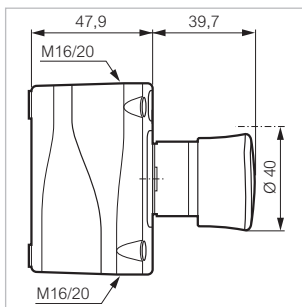
LBX10310
LBX10410
LBX10510

Contact blocks fixed behind cover (form p. 90)

MUSHROOM HEAD ø 40 EN 418/ISO 13850 - STAY-PUT Push-turn to reset



LBX17201



Compliant with the requirements of emergency stop:
IEC 60947-5-5 / EN 418/ISO 13850

● Red NC 21 22
● Red 2 NC 11 12 21 22

● Red NC 21 22
● Red 2 NC 11 12 21 22

● Red NC 21 22
● Red 2 NC 11 12 21 22

ARRÊT D'URGENCE
ARRÊT D'URGENCE

NOT AUS
NOT AUS

EMERGENCY STOP
EMERGENCY STOP

LBX17101
LBX17102

LBX17201
LBX17202

LBX17301
LBX17302

Contact blocks fixed behind cover (form p. 90)

Control stations ø 22

IP 66
Base mounted contact-screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 66)
Special engraving and mounting (form p. 90)

 Characteristics (p. 94)

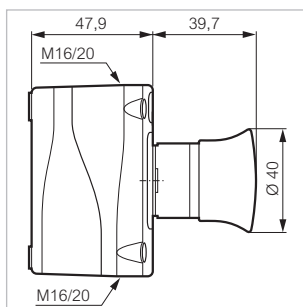
► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

MUSHROOM HEAD Ø 40 EN 418/ISO 13850 - STAY-PUT Push-pull to reset

Cat. No.



LBX15101



Compliant with the requirements of emergency stop: IEC 60947-5-5 / EN 418/ ISO 13850

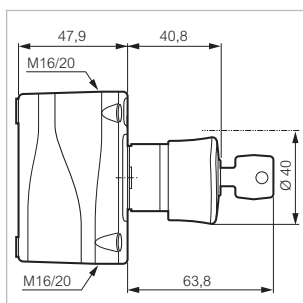
● Red	NC		ARRÊT D'URGENCE	LBX15101
● Red	2 NC		ARRÊT D'URGENCE	LBX15102
● Red	NC		NOT AUS	LBX15201
● Red	2 NC		NOT AUS	LBX15202
● Red	NC		EMERGENCY STOP	LBX15301
● Red	2 NC		EMERGENCY STOP	LBX15302

Contact blocks fixed behind cover (form p. 90)

MUSHROOM HEAD Ø 40 EN 418/ISO 13850 - STAY-PUT Key to reset



LBX11302



Compliant with the requirements of emergency stop: IEC 60947-5-5 / EN 418/ ISO 13850
Supplied with 2 keys profile n° 455

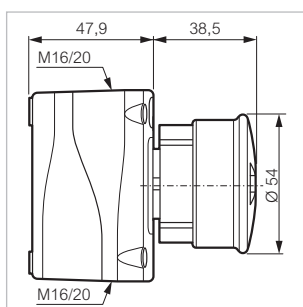
● Red	NC		ARRÊT D'URGENCE	LBX11101
● Red	2 NC		ARRÊT D'URGENCE	LBX11102
● Red	NC		NOT AUS	LBX11201
● Red	2 NC		NOT AUS	LBX11202
● Red	NC		EMERGENCY STOP	LBX11301
● Red	2 NC		EMERGENCY STOP	LBX11302

Contact blocks fixed behind cover (form p. 90)

MUSHROOM HEAD Ø 54 EN 418/ISO 13850 - STAY-PUT Push-pull to reset with flag indicator



LBX14201



Compliant with the requirements of emergency stop: IEC 60947-5-5 / EN 418/ ISO 13850
Double position indicator: head and collar

● Red	NC		STOP - 	LBX14201
● Red	2 NC		STOP - 	LBX14202

Contact blocks fixed behind cover (form p. 90)

Control stations ø 22

IP 66
Base mounted contact- screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 66)
Special engraving and mounting (form p. 90)

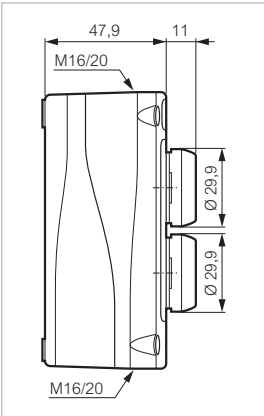
 Characteristics (p. 94)

▶ CONTROL STATIONS WITH 2 BUTTONS

SPRING RETURN - FLUSH Cat. No.



LBX20120



● Green

● Red

NO

NC

13

21

14

22

Marking

⬆

⊙

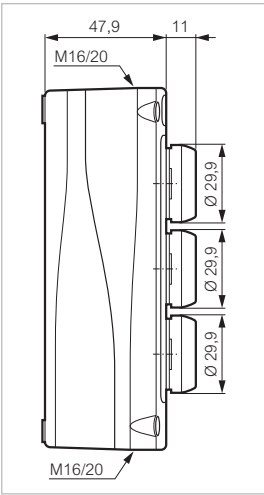
LBX20120

▶ CONTROL STATIONS WITH 3 BUTTONS

SPRING RETURN - FLUSH Cat. No.



LBX30430



● Green

● Red

● Green

NO

NC

NO

13

21

13

14

22

14

Marking

⬆

⊙

⬇

LBX30430

Control stations with 4 or 5 buttons (form p. 90)

Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other control stations to be equipped (form p. 90)



Characteristics (p. 94)

ENCLOSURES

1 HOLE

Cat. No.

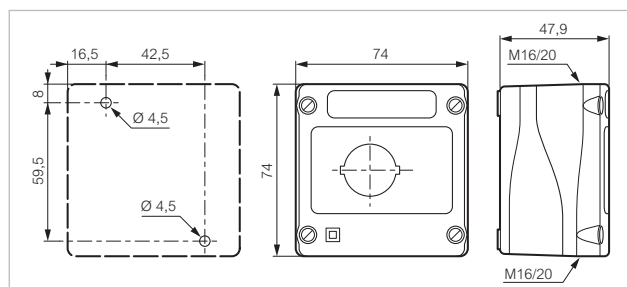


LBX0100J

Black base

- Grey cover
- Yellow cover

LBX0100
LBX0100J



2 HOLES

Cat. No.

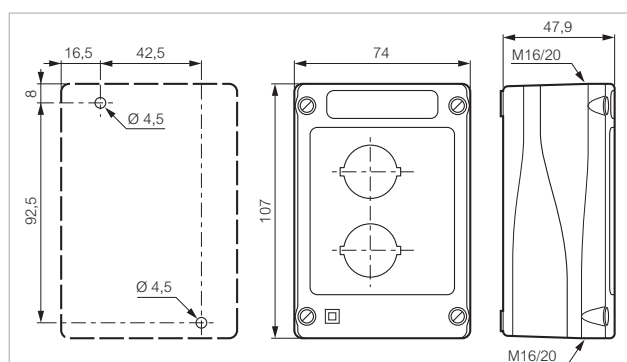


LBX0200

Black base

- Grey cover
- Yellow cover

LBX0200
LBX0200J



Catalogue No. in bold: normally in stock at distribution outlets

Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other enclosures (form p. 90)



Characteristics (p. 94)

► ENCLOSURES (CONTINUED)

3 HOLES

Cat. No.

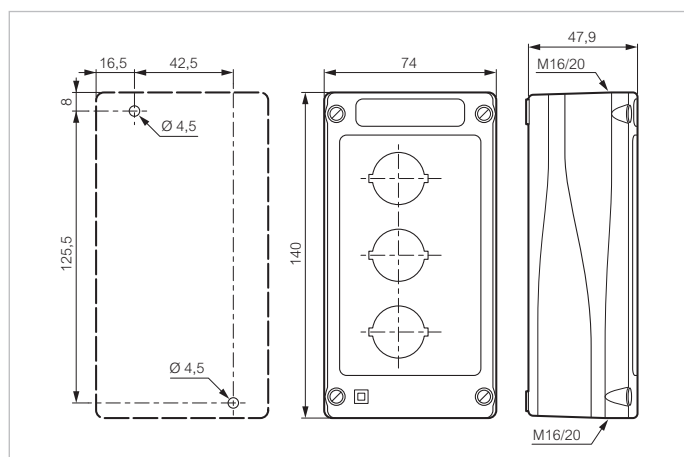


LBX0300

Black base

● Grey cover

LBX0300



Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other enclosures (form p. 90)



Characteristics (p. 94)

► ENCLOSURES (CONTINUED)

4 HOLES

Cat. No.

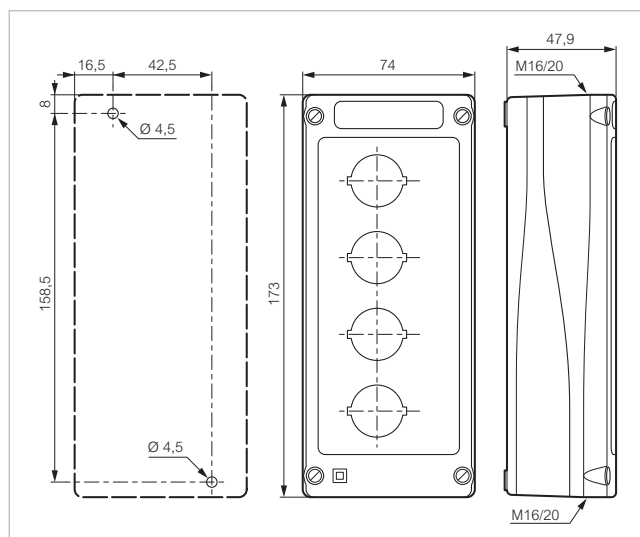


Black base

● Grey cover

LBX0400

LBX0400



Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 21-45
 - specific blocks for control stations (base mounted) p. 62
 - frames and legend plates p. 66
 Other enclosures (form p. 90)



Characteristics (p. 94)

► ENCLOSURES (CONTINUED)

5 HOLES

Cat. No.

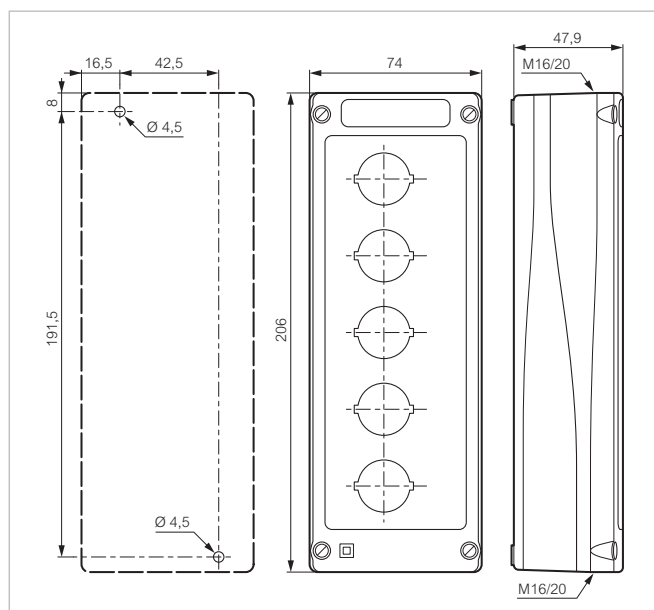


Black base

● Grey cover

LBX0500

LBX0500



Mounting: ☐ horizontal ☐ vertical

Unit type : ☐ 1 hole ☐ 2 holes ☐ 3 holes ☐ 4 holes ☐ 5 holes
☐ yellow cover (only 1 hole)

1		8		13		1	Spring return flush	8	Mushroom head push-turn stay-put
2		9		14		2	Push-push stay-put flush	9	Mushroom head with key
3		10		15		3	Spring return projecting	10	Selector switch with handle
4		11		16		4	Push-push stay-put projecting	11	Selector switch with long handle
5		12				5	Mushroom head spring return	12	Knob selector switch
6						6	Mushroom head push-pull stay-put		
7						7	Mushroom head Ø 54 push-pull with flag indicator		

[illegible]

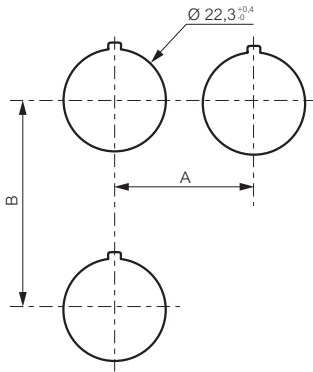
			Colour				
	☐ On head	☐ On control station ⁽¹⁾	☐ On legend plate ⁽²⁾	BLACK	RED	ALU	WHITE

Figure 1 shows a sequence of 10 diagrams illustrating the evolution of a network structure. Each diagram consists of a central node (black square) and one or more edges (black lines) connecting to other nodes (white squares). The edges are labeled with numbers 0, 1, or 2. The sequence shows a progression from a single edge to a more complex structure with multiple edges and nodes.

COMMENTS

Panel cut-out

DRILLING

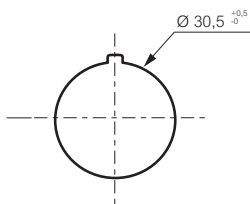


For heads equipped with electrical blocks with screw or plug-in terminals

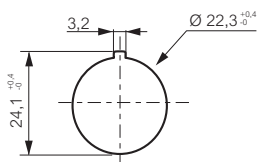
Minimum interval (mm)

	= 30	With or without legend (usual case)
	= 33	IP 67 (silicon shroud)
	= 40	With large legend plate
A	> 40	For mushroom head Ø 40
	> 45	For selector switch with long handle
	= 38	For super-flush button
	= 50	With 5 position clip
	= 45	With or without legend plate (usual case)
B	= 54	With double touch
	= 77	With double touch + legend plate
	= 50	Joystick

DRILLING FOR SUPER-FLUSH BUTTON

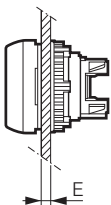


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



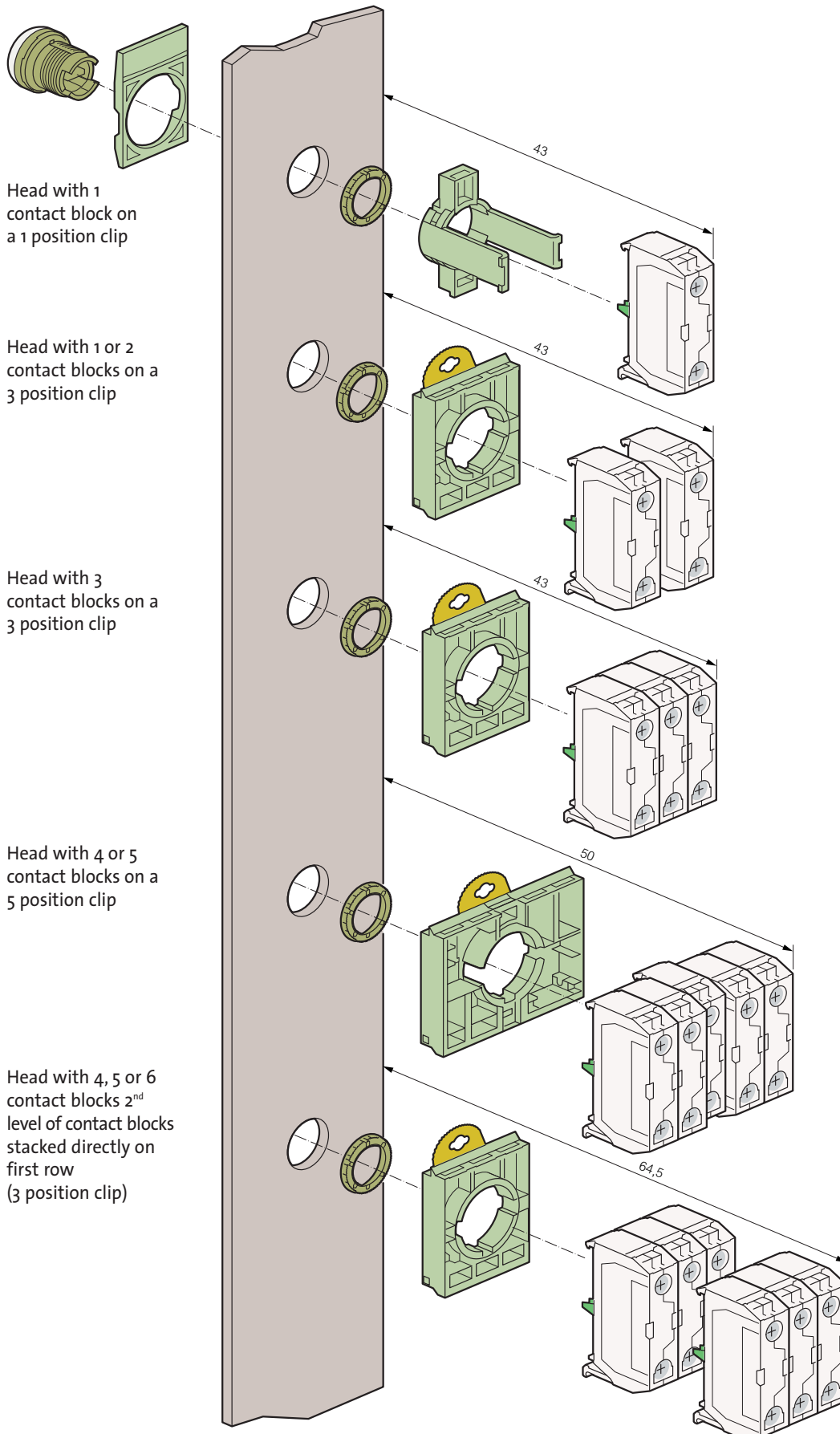
THICKNESS OF PANEL (E)

E = 1 to 6 mm



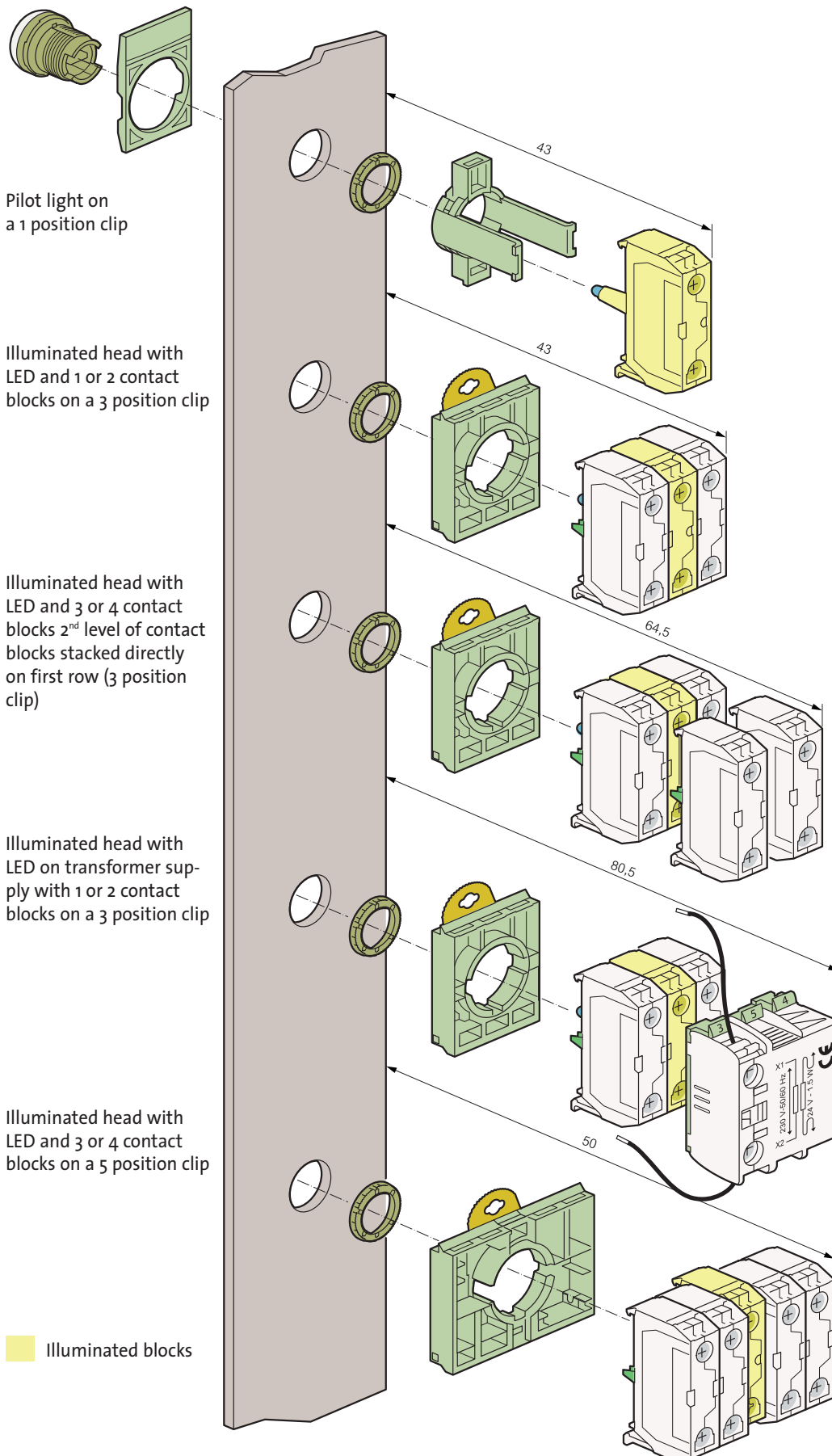
Mounting blocks $\varnothing 22$

NON ILLUMINATED



Mounting blocks ø 22

ILLUMINATED



Technical characteristics

► GENERAL

Characteristics	Data	Standards
► Storage temperature	- 40 °C to + 70 °C	
► Operating temperature	- 25 °C to + 70 °C	
► Climatic resistance	Constant humid heat Cyclic damp heat Resistance to sea air	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
► Degree of protection	IP 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 20 at the rear of the panel for contact blocks and one piece pilot lights Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations	IEC 60529 NEMA standard
► Protection against mechanical impacts	IK 05 illuminated and non illuminated heads IK 07 empty control station	IEC 62262
► Electrical insulation	Class II - heads and control station	IEC 60947-5-1
► Terminal marking		IEC 60947-1
► Tightening torques	Locking ring: recommended 3 N.m terminals: max. 1.2 N.m	
► Approvals	UL United states and Canada BV Bureau Véritas Certification OC/CB	UL 508, CSA 22.2 Marine rules IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4
► Vibrations	withstand vibration Fc test: 2 to 25 Hz, 1.6 mm; 25-100 Hz, 4 g	IEC 60068-2-6

Technical characteristics

▶ CONTACT BLOCKS

Screw and plug-in connection characteristics	Data		Standards
▶ Rated insulation voltage	690 V AC 600 V AC		IEC 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	6kV 3		
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2,5 A		IEC 60947-5-1
▶ Electrical ratings	Alternating current AC15 - A 600 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Ue = 380 V, Ie = 1,9 A Ue = 480 V, Ie = 1,5 A Ue = 500 V, Ie = 1,4 A Ue = 600 V, Ie = 1,2 A Minimum operating current - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 600 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A Ue = 400 V, Ie = 0,15 A Ue = 500 V, Ie = 0,13 A Ue = 600 V, Ie = 0,1 A - golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10 ⁻⁸	IEC 60947-5-1
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Applicable wire sizes	Rigid or flexible wire without ferrule: 0,5 mm ² to 2 x 2,5 mm ² Rigid or flexible wire with ferrule: 0,5 mm ² to 2 x 1,5 mm ²		

Faston connection	Data		Standards
▶ Rated insulation voltage	320 V AC 300 V AC		IEC 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse withstanding voltage Uimp Pollution degree	6 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2,5 A		IEC 60947-5-1
▶ Electrical ratings	Alternating current AC15 - A 300 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Minimum current of use Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 300 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A - DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	IEC 60947-5-1
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Faston size	6,35 mm or 2 x 2,8 mm		

Technical characteristics

▶ CONTACT BLOCKS

Pin-style connection (for PCB)	Data		Standards
▶ Rated insulation voltage	250 V AC 250 V AC		IEC 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse withstanding voltage Uimp Pollution degree	4 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 5 A DC 13: 1 A		IEC 60947-5-1
▶ Electrical ratings	Alternating current AC 15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	Direct current DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	IEC 60947-5-1 IEC 60947-5-4
	Minimum current of use - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10 ⁻⁸	
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Pin diameter	Ø 1 mm		

▶ LED BLOCKS FOR ILLUMINATED HEADS AND ONE PIECE LED PILOT LIGHTS

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	4 kV (with filter block see p. 64) 3	IEC 60947-1
▶ Operating voltage	12 to 24 V AC/DC 48 V AC/DC (for LED block) 130 V AC 230 V AC	
▶ Frequency	50 or 60 Hz	
▶ Lifetime at rated supply voltage	Red and yellow: 100 000 hours at 25 °C Other colours: 50 000 hours at 25 °C	
▶ Consumption of LED blocks	Voltage: - 24 V: 25 mA ± 20% - 48 V: 15 mA ± 5% - 130 V: 20 mA ± 10% - 230 V: 16 mA ± 30%	

Technical characteristics

▶ ONE PIECE PILOT LIGHT BA9S

Characteristics	Data	Standards
▶ Rated insulation voltage	400 V	IEC 60947-5-1
▶ Rated impulse withstand voltage Uimp	4 kV	IEC 60947-1
▶ Bulb rating	400 V max. - 2,6 W max. 240 V max. - 2,6 W max.	IEC 60947-5-1 UL 508

▶ HEADS

Characteristics	Data	Standards
▶ Mechanical endurance (in million cycles)	Spring return: 5 Push-push: 0,5 Selector switches: 0,3 Mushroom head maintained function EN 418/ISO 13850: 0,10 Mushroom head maintained function: 0,15	
▶ Activation force in N	Spring return + NO: 6,5 Spring return + NC: 4,5 Additional NO contact: 4,5 Additional NC contact: 3,0 Push-pull mushroom head + NO + NC: 27 Push-turn mushroom head + NO + NC: 22 Push-pull mushroom head EN 418/ISO 13850 + NO + NC: 37 Push-turn mushroom head EN 418/ISO 13850 + NO + NC: 60	
▶ Activation force in Nm	Selector switch + NO: 0,04 Additional NO contact: 0,03	

▶ EMERGENCY STOP ACTUATORS - EN 418/ISO 13850:

According to IEC 60947-5-5, the emergency stop function can be provided by an EN 418/ISO 13850 mushroom head combined with a "positive opening" NC contact block.

The mechanism of our EN 418/ISO 13850 mushroom heads is so designed that a "push" action of sufficient force to open the contact systematically triggers an irreversible locking of this opening. This generates an "emergency stop" signal which can be cancelled only by deliberate manual resetting of the mushroom head (pull and turn or unlocking by key).

This function allows to generate an "emergency stop" signal for any equipment subject to directive 98/37CE (machinery safety) completed by the IEC 60204-1 standard.

The EN 418/ISO 13850 mushroom heads also comply with the safety requirements detailed in standards EN 418 and ISO 13850.

Diagrams

MECHANICAL OPERATION

For 3 position selector switches

Handle position

(View from front of panel)



Back side view

Non operated block



Operated block



Contacts block actuation

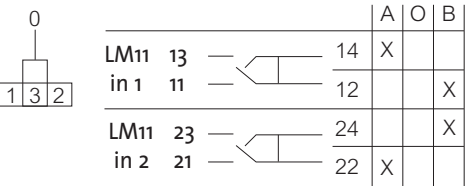
(View from front of panel)



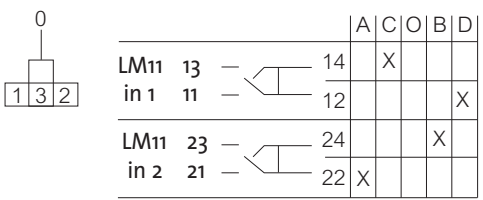
MECHANICAL OPERATION

For Joysticks

2 positions

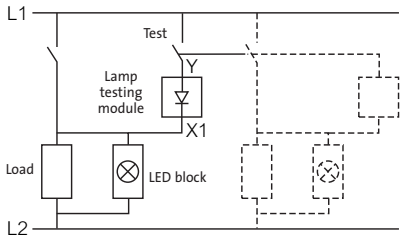


4 positions

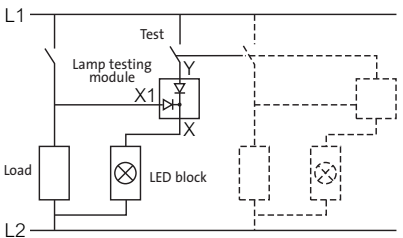


PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

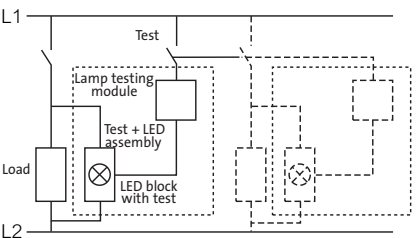
Lamp-testing module with 1 diode (33ET) for direct supply 24 V and 48 V



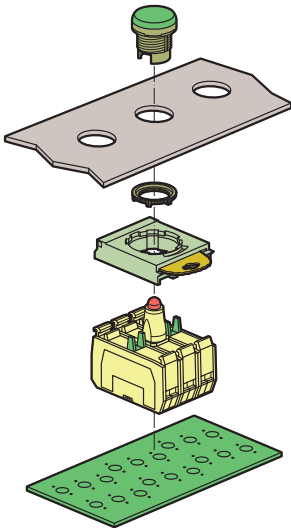
Lamp-testing module with 2 diodes (33ETT) for direct supply 24 V and 48 V



Lamp-testing assembly for direct supply 130 V and 240 V (Consult us - see page 79)

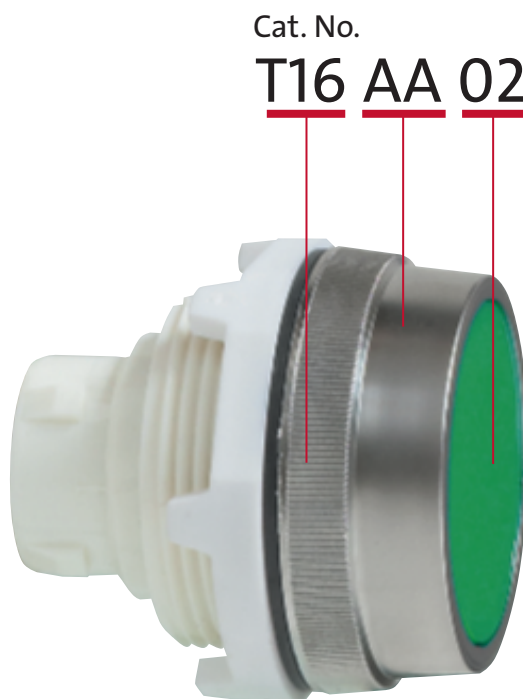


PRINTED CIRCUIT BOARD MOUNTING



Ø 30 heads:

Baco simplifies your choice



- - - **AA** - - definition of **function**

T16 **AA** - - choice of **bezel**

T16 AA **02** colour of head

► HEAD COLOUR CODES

01 ● red	04 ● yellow
02 ● green	05 ○ white
03 ● black	06 ● blue

► BEZEL CODES

T11	chrome brilliant plastic
T12	black plastic
T13	grey plastic
T14	Chrome brass
T16	Matt chrome plastic

► AVANTAGES

- Ø 30 heads use the same clips and blocks as Ø 22 heads
- Fully compatible with the new Ø 22 range
- Wide choice of bezels

Separate units $\varnothing$ 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

 $\varnothing$ 30 blocks use the same blocks and clips (except for the 5 position clip) as $\varnothing$ 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

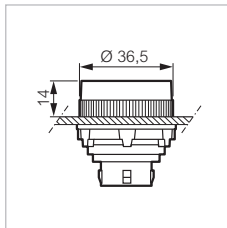
► PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



T16AA01



Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

T16AA01
T16AA02
T16AA03
T16AA04
T16AA05
T16AA06

With engraving

- ⊙ Red
- Ⓢ Green
- Ⓢ Black

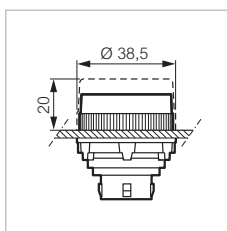
T16AA81
T16AA82
T16AA83

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



T12AG03



Supplied with transparent shroud
Marking possible
(engravings and symbols p. 118 and p. 72)

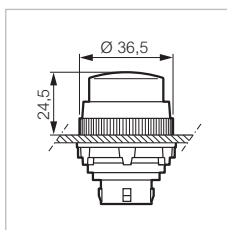
- Red
- Green
- Black
- Yellow
- White
- Blue

T12AG01
T12AG02
T12AG03
T12AG04
T12AG05
T12AG06

SPRING RETURN - PROJECTING



T16AB01



- Red
- Green
- Black
- Yellow
- White
- Blue

T16AB01
T16AB02
T16AB03
T16AB04
T16AB05
T16AB06

Separate units $\varnothing$ 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

 $\varnothing$ 30 blocks use the same blocks and clips (except for the 5 position clip) as $\varnothing$ 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

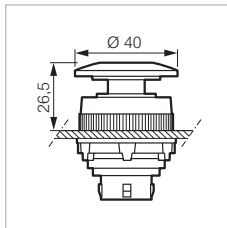
SPRING RETURN - MUSHROOM HEAD $\varnothing$ 40

Push

Cat. No.



T16AD01



- Red
- Green
- Black
- Yellow

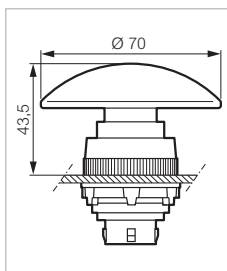
T16AD01
T16AD02
T16AD03
T16AD04

SPRING RETURN - MUSHROOM HEAD $\varnothing$ 70

Push



T16AE01



- Red - plastic
- Black - plastic

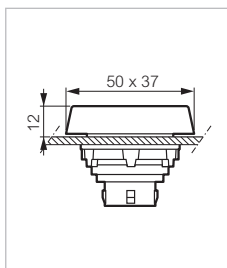
T16AE01
T16AE03

SPRING RETURN - FLUSH-FLUSH

Double touch



T52QA02



Plastic black frame

- Green
- Red
- Black
- Red

T52QA02

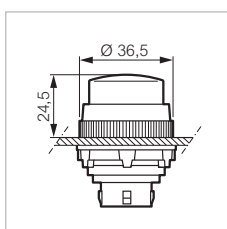
T52QA03

STAY-PUT - PROJECTING

Push-push



T16CB02



- Red
- Green
- Black
- Yellow
- White
- Blue

T16CB01
T16CB02
T16CB03
T16CB04
T16CB05
T16CB06

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

SELECTOR SWITCHES - NON ILLUMINATED

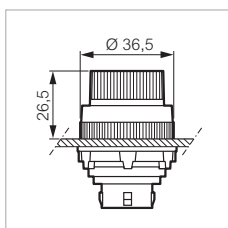
WITH HANDLE

2 positions

Cat. No.



T16KA03



Stay-put positions - 45°

- Red
- Black
- Grey



T16KA01
T16KA03
T16KA08

Stay-put positions - 45°

- Red
- Black
- Grey



T16KC01
T16KC03
T16KC08

Spring return- 45°

- Red
- Black
- Grey



T16KD01
T16KD03
T16KD08

Stay-put positions - 90°

- Red
- Black
- Grey



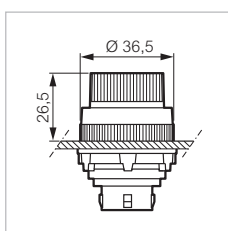
T16KF01
T16KF03
T16KF08

WITH HANDLE

3 positions

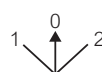


T16MA01



Stay-put positions - 45°

- Red
- Black
- Grey



T16MA01
T16MA03
T16MA08

Spring return from right to 0 - 45°

- Red
- Black
- Grey



T16MC01
T16MC03
T16MC08

Spring return to 0 - 45°

- Red
- Black
- Grey



T16MD01
T16MD03
T16MD08

Stay-put positions - 90°

- Red
- Black
- Grey



T16MK01
T16MK03
T16MK08

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

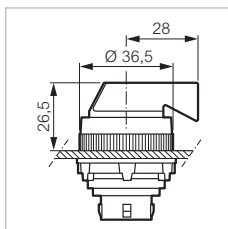
WITH LONG HANDLE

2 positions

Cat. No.



T16KP03



Stay-put positions - 45°

- Red
- Black
- Grey



T16KP01
T16KP03
T16KP08

Stay-put positions - 45°

- Red
- Black
- Grey



T16KR01
T16KR03
T16KR08

Spring return - 45°

- Red
- Black
- Grey



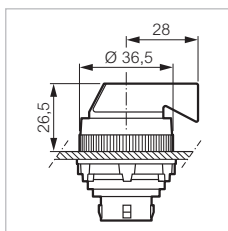
T16KS01
T16KS03
T16KS08

WITH LONG HANDLE

3 positions

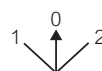


T16MR01



Stay-put positions - 45°

- Red
- Black
- Grey



T16MR01
T16MR03
T16MR08

Spring return from right to 0 - 45°

- Red
- Black
- Grey



T16MT01
T16MT03
T16MT08

Spring return to 0 - 45°

- Red
- Black
- Grey



T16MU01
T16MU03
T16MU08

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

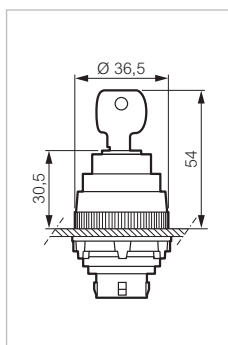
WITH KEY

2 positions

Cat. No.



T16LA00



Supplied with 2 keys profile n° 455

Key free in position:

Stay-put positions - 45°

● Black



0

T16LA00

Stay-put positions - 45°

● Black



0

T16LC00

Spring return- 45°

● Black



0

T16LD00

Stay-put positions - 90°

● Black



0

T16LF00

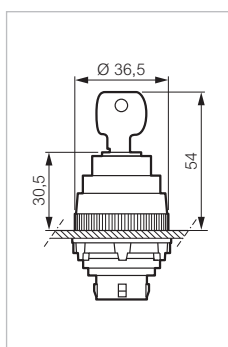
Key profile n° 1424 A and others (form p. 117)

WITH KEY

3 positions



T16NA00



Supplied with 2 keys profile n° 455

Key free in position:

Stay-put positions - 45°

● Black



0

T16NA00

Spring return from right to 0 - 45°

● Black



0

T16NC00

Spring return to 0 - 45°

● Black



0

T16ND00

Stay-put positions -90°

● Black



1 - 0 - 2

T16NK00

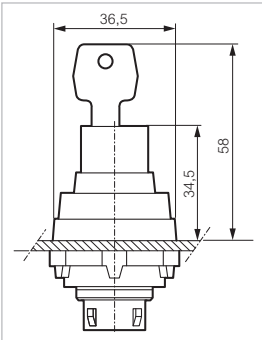
Key profile n° 1424 A and others (form p. 117)

Separate units ø 30: Heads

IP 65
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Other bezel on request (form p. 117)
Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)
Conform to IEC 60947-5-1

 Characteristics (p. 121)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

WITH KEY	Push	Cat. No.		
 T16GM00		Supplied with 2 keys profile n° 455		
		Lockable position	Key free in:	
		Stay-put		
		In bottom position	Top and bottom position	T16GM00
		Manual locking		
		In top position	Top and bottom position	T16GF00
		In top position	Bottom position	T16GJ00
		In bottom position	Top and bottom position	T16GG00
		In bottom position	Bottom position	T16GK00
		In top and bottom position	Top and bottom position	T16GH00
		In top and bottom position	Bottom position	T16GL00

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel - Other bezel on request (form p. 117)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

► MUSHROOM HEADS - NON ILLUMINATED

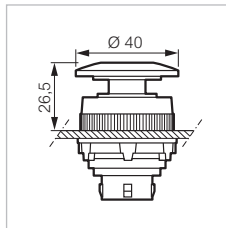
Ø 40 - STAY-PUT

Push-pull to reset

Cat. No.



T16DD01



- Red
- Green
- Black
- Yellow

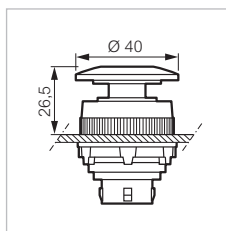
T16DD01
T16DD02
T16DD03
T16DD04

Ø 40 - STAY-PUT

Push-turn to reset



T16ED01



Stay-put

- Red
- Green
- Black
- Yellow

T16ED01
T16ED02
T16ED03
T16ED04

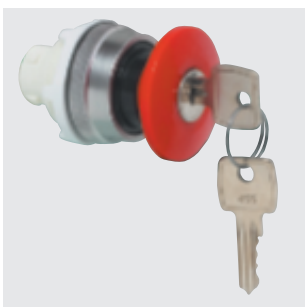
Manual locking

- Red
- Green
- Black
- Yellow

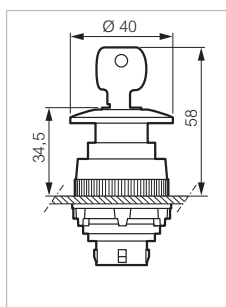
T16FD01
T16FD02
T16FD03
T16FD04

Ø 40 - STAY-PUT

Key to reset



T16GM01



Supplied with 2 keys profile n° 455

- Red

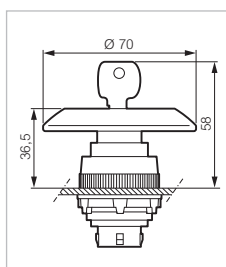
T16GM01

Ø 70 - STAY-PUT

Key to reset



T16GP01



Supplied with 2 keys profile n° 455

- Red

T16GP01

Separate units ø 30: Heads

IP 65
To be used without electrical block
Black plastic bezel
Stroke 12 mm
Conform to IEC 60947-5-1

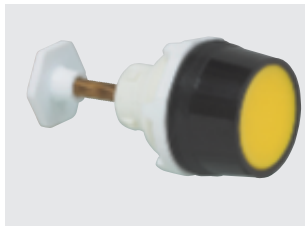


Characteristics (p. 121)

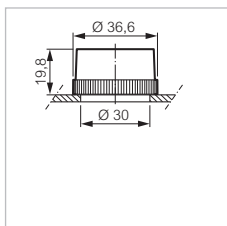
► ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



T12HA04

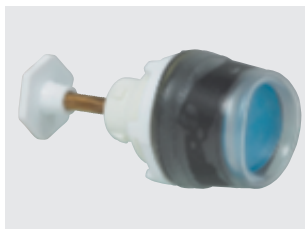


- Red
- Green
- Black
- Yellow
- White
- Blue

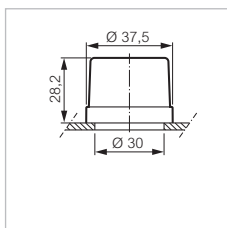
T12HA01
T12HA02
T12HA03
T12HA04
T12HA05
T12HA06

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



T12HG06



Supplied with transparent shroud

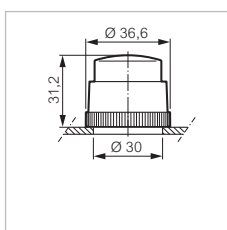
- Red
- Green
- Black
- Yellow
- White
- Blue

T12HG01
T12HG02
T12HG03
T12HG04
T12HG05
T12HG06

SPRING RETURN - PROJECTING



T12HB05



- Red
- Green
- Black
- Yellow
- White
- Blue

T12HB01
T12HB02
T12HB03
T12HB04
T12HB05
T12HB06

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Black bezel on request (form p. 117)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

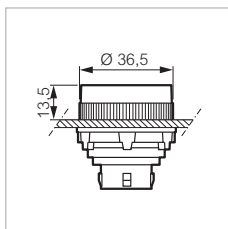
► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



T16AH20



- Red
- Green
- Colourless
- Yellow
- Opal

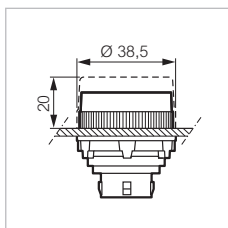
T16AH10
T16AH20
T16AH30
T16AH40
T16AH50

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



T12AP40



Supplied with transparent shroud

- Red
- Green
- Colourless
- Yellow
- Opal

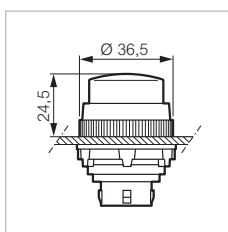
T12AP10
T12AP20
T12AP30
T12AP40
T12AP50

Enables engraving of button plate (form p. 117)

SPRING RETURN - PROJECTING



T16AK10



- Red
- Green
- Colourless
- Yellow
- Opal

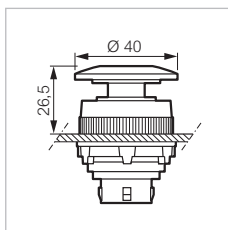
T16AK10
T16AK20
T16AK30
T16AK40
T16AK50

SPRING RETURN - MUSHROOM HEAD Ø 40

Push



T16AM10



- Red
- Green
- Yellow
- Opal

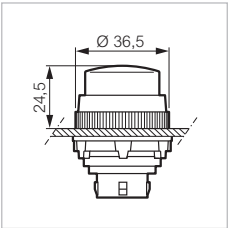
T16AM10
T16AM20
T16AM40
T16AM50

Separate units ø 30: Heads

IP 65
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 117)
Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)
Conform to IEC 60947-5-1

 Characteristics (p. 121)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

STAY-PUT - PROJECTING	Push-push		Cat. No.
		● Red ● Green ○ Colourless ● Yellow ○ Opal	T16CK10 T16CK20 T16CK30 T16CK40 T16CK50

T16CK50

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 48)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 117)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 48-65)

Conform to IEC 60947-5-1



Characteristics (p. 121)

SELECTOR SWITCHES - ILLUMINATED

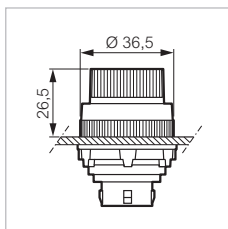
WITH HANDLE

2 positions

Cat. No.



T16KG10



Stay-put positions - 45°

- Red
- Green
- Opal



T16KG10
T16KG20
T16KG50

Stay-put positions - 45°

- Red
- Green
- Opal



T16KJ10
T16KJ20
T16KJ50

Spring return - 45°

- Red
- Green
- Opal



T16KK10
T16KK20
T16KK50

Stay-put positions - 90°

- Red
- Green
- Opal



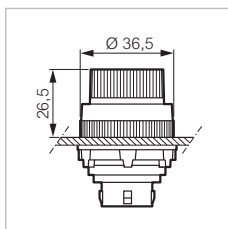
T16KM10
T16KM20
T16KM50

WITH HANDLE

3 positions

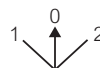


T16ME20



Stay-put positions - 45°

- Red
- Green
- Opal



T16ME10
T16ME20
T16ME50

Spring return from right to 0 - 45°

- Red
- Green
- Opal



T16MG10
T16MG20
T16MG50

Spring return to 0 - 45°

- Red
- Green
- Opal



T16MH10
T16MH20
T16MH50

Stay-put positions - 90°

- Red
- Green
- Opal



T16MJ10
T16MJ20
T16MJ50

Separate units ø 30: Heads

To be combined with a clip and electrical blocks (p. 48)
 With locking ring
 For lens engraving (form p. 117)
 Conform to IEC 60947-5-1



Characteristics (p. 121)

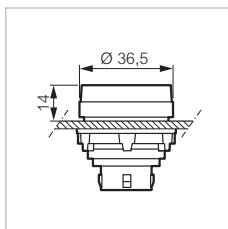
► PILOT LIGHT

LENS WITH BEZEL

Cat. No.



T10SB50V



Smooth lens

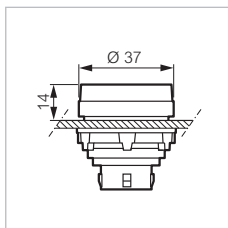
- Red
- Green
- Colourless
- Yellow
- Opal
- Blue

T10SB10V
 T10SB20V
 T10SB30V
 T10SB40V
 T10SB50V
 T10SB60V

LENS WITH BEZEL AND TRIM



T15SB20V



Smooth lens

- Red
- Green
- Colourless
- Yellow
- Opal
- Blue

T15SB10V
 T15SB20V
 T15SB30V
 T15SB40V
 T15SB50V
 T15SB60V

Accessories ø 30


[Characteristics \(p. 121\)](#)

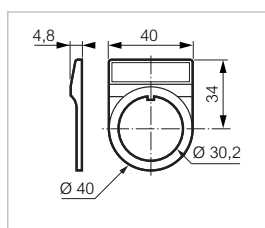
► COMPLETE FRAME

Standard model

Cat. No.



UP39



Round shape
Black frame and legend plate unassembled
2 lines maximum, 18 characters per line

Without engraving

- Red
- Black
- Alu
- Transparent

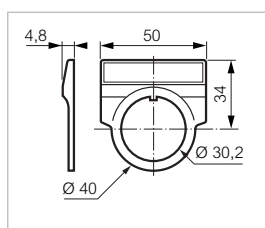
UP31
UP33
UP39
UP37

On demand engraving (p. 117)

Large model



UG39



Round shape
Black frame and legend plate unassembled
2 lines maximum, 24 characters per line

Without engraving

- Red
- Black
- Alu
- Transparent

UG31
UG33
UG39
UG37

On demand engraving (p. 117)

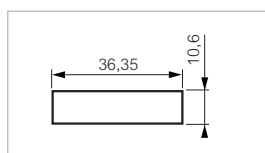
► LEGEND PLATE

Standard model

Cat. No.



IB1



2 lines maximum, 18 characters per line
For frame cat. no.. UP3

Without engraving

- Red
- Black
- Alu
- Transparent

IB1
IB3
IB9
IB7

On demand engraving (p. 117)

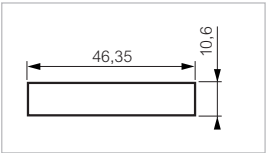
Cardboard legend for transparent legend plate
Sheet of 20 pieces, to be cut out

I2B

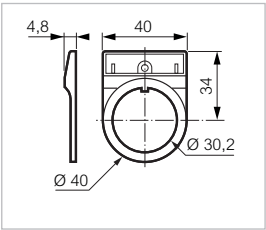
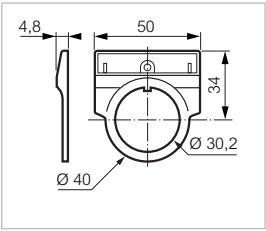
Accessories ø 30

 Characteristics (p. 121)

► LEGEND PLATE (CONTINUED)

Large model		Cat. No.
 IC3	 2 lines maximum, 24 characters per line For frame cat. no.. UG3 Without engraving ● Red ● Black ● Alu ○ Transparent On demand engraving (p. 117) Cardboard legend for transparent legend plate Sheet of 20 pieces, to be cut out	IC1 IC3 IC9 IC7 I2C

► FRAMES

Standard model		Cat. No.
 UP3	 ● Black	UP3
Large model		
 UG3	 ● Black	UG3

Accessories ø 30


[Characteristics \(p. 121\)](#)

► BUTTON PLATES

FOR ILLUMINATED FLUSH BUTTONS

Cat. No.



UE02

2 lines maximum, 10 characters per line
To be inserted under the button

Without engraving
☐ Transparent

UE02

On demand engraving (p. 117)

Symbol code to be added at the end of the catalogue number

☐ Transparent (black engraving)

UE0□□□

Other colours (form p. 117)

FOR PILOT LIGHTS



UE10

2 lines maximum, 12 characters per line
To be inserted under the lens

Without engraving
☐ Transparent

UE10

On demand engraving (p. 117)

Symbol code to be added at the end of the catalogue number

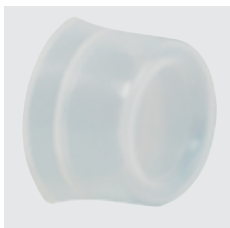
☐ Transparent (black engraving)

UE10□□□

► SHROUDS IP 67

FOR ADJUSTABLE MECHANICAL BUTTONS

Cat. No.

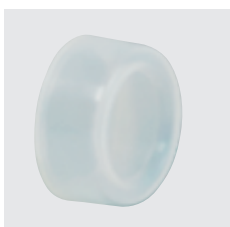


UA0219

☐ Transparent

UA0219

FOR FLUSH BUTTONS



UA0228

☐ Transparent

UA0228

Accessories ø 30



Characteristics (p. 121)

► BEZELS

ROUND

Cat. No.



UA0011

Height 13 mm
Possibility of sticking the bezel on the button

Brilliant chrome plastic
Black plastic
Grey plastic
Matt chrome plastic bezel
Matt chrome brass

UA0011
UA0012
UA0013
UA0016
UA0014

For adjustable mechanical button



UA0112

Height 20 mm

Brilliant chrome plastic
Black plastic
Grey plastic
Brilliant chrome brass

UA0111
UA0112
UA0113
UA0114

GUARD

For flush push-buttons



UA0202

Height 20 mm

Brilliant chrome brass

UA0202

Accessories ø 30


[Characteristics \(p. 121\)](#)

► MISCELLANEOUS

FIXING TOOL

Cat. No.



Fixing tool ø 30

WA0210

WA0210

BLANKING PLUG



Grey

UA0215

UA0215

ANTI-ROTATION RING



Anti-rotation ring

UA0209

UA0209

Request form for specific control and signalling units ø 30

► HEAD (fill in one form for each type of product)

Type:

-  ☐ Spring return flush
-  ☐ Spring return projecting
-  ☐ Mushroom head spring return
-  ☐ Push-push stay-put
-  ☐ Mushroom head push-pull stay-put
-  ☐ Mushroom head push-turn stay-put
-  ☐ Mushroom head With key
-  ☐ Selector switch handle
-  ☐ Selector switch with long handle
-  ☐ Selector switch with key
☐ 455 E
☐ 1424 A
☐ Other
-  ☐ Double touch
- ☐ Mechanical button
☐ Flush
☐ Projecting
-  ☐ Pilot light

Options:

- ☐ Illuminated button
- ☐ IP 67 shroud
- ☐ Guard for buttons

Size (mm):

- Mushroom head ☐ Ø 40
☐ Ø 70

Colour :

- ☐ Colourless ☐ Green
☐ Black ☐ Red
☐ Opal ☐ Blue
☐ Yellow

Bezel:

- ☐ black
☐ grey
☐ matt chromed
☐ brilliant chromed
☐ chromed brass

► ENGRAVINGS

Use the grid below

- ☐ on head
☐ standard text or symbol
☐ other text (2 x 10 characters)
- ☐ on legend plate :
☐ standard (2 x 18 characters)
☐ large model (2 x 14 characters)
- Ground colour:
☐ white
☐ alu
☐ black

► BLOCKS AND CLIPS

Block:

- ① NO
 ② NC
 ③ NO/NC
 ④ Transformer
 ⑤ Filter
 ⑥ Junction
 ⑦ Empty
 ⑧ Lamp-test
 ⑨ LED

- Voltage: ☐ 24 V
☐ 130 V
☐ 230 V

- Colour: ☐ white
☐ yellow
☐ red
☐ green
☐ blue

Connection:

- ☐ Screw
☐ Faston
☐ Plug-in
☐ For PCB

Clips :

- ☐ 1 position 
- ☐ 3 positions 
- ☐ 6 positions 

Options:

- ☐ Head, block and clip assembled

YOUR DETAILS

Company:

Name and surname:

Address:

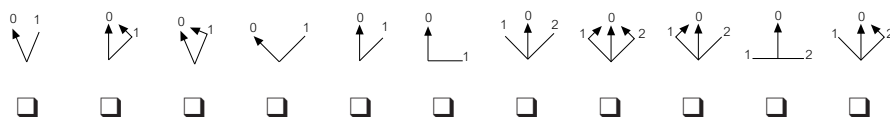
E-mail :

Tel.:

Fax:

COMMENTS

► SELECTOR SWITCHES SWITCHING ANGLE

Key free in position: ☐ 0 ☐ 1 ☐ 2 ☐ other (attach diagram)

ENGRAVING

Engravings

Symbol code to be added at the end of the catalogue number

STANDARD TEXTS

UNIVERSAL TEXT

Cat. No.

For selector switches and legend plates

O-I	081
I-II	082
I-O-II	091
I-II-III	092
O-I-START	093
O-I-II	094

ENGLISH TEXT

For buttons, pilot lights and legend plates

CLOSE	314
DOWN	336
FAST	310
FORWARD	305
INCH	329
JOG	328
LEFT	311
LOWER	308
OFF	304
ON	303
OPEN	313
POWER-ON	330
RAISE	307
RESET	315
REVERSE	306
RIGHT	312
RUN	327
SLOW	309
START	301
STOP	302
UP	335

For selector switches and legend plates

FORW.-OFF-REV.	392
HAND-AUTO	383
HAND-OFF-AUTO	391
LOCAL-OFF-REMOTE	393
OFF-ON	382
STOP-START	381

Engravings

Symbol code to be added at the end of the catalogue number

► STANDARD TEXTS (CONTINUED)

GERMAN TEXT

Cat. No.

For buttons, pilot lights and legend plates

AB	208
AUF	207
AUS	204
BETRIEB	224
BREMSSEN	225
EIN	203
EINRICHTEN	223
FEINHEBEN	221
FEINSENKEN	222
HALT	202
HEBEN	219
LANGSAM	209
LINKS	211
RECHTS	212
RÜCKWÄRTS	206
SENKEN	220
SCHNELL	210
VORWÄRTS	205
VORRÜCKEN	226
ZU	214

For selector switches and legend plates

AUS-EIN	281
HAND-AUTO	283
HAND-O-AUTO	291
ZURÜCK-O-VOR	292

FRENCH TEXT

For buttons, pilot lights and legend plates

ALARME	133
ARRÊT	102
ARRÊT GÉNÉRAL	116
ARRIÈRE	106
AVANT	105
DÉCLENCHEMENT	131
DÉFAUT	132
DESCENTE	108
DROITE	112
EN SERVICE	103
FERMETURE	114
GAUCHE	111
HORS SERVICE	104
KLAXON	118
LENT	109
MARCHE	101
MONTÉE	107
OUVERTURE	113
RÉARMEMENT	115
SOUS TENSION	117
VITE	110

For selector switches and legend plates

ARRÊT-MARCHE	181
AVANT -O- ARRIÈRE	192
C.P.C.-NORMAL	184
HORS-EN	182
MANU-AUTO	183
MANU -O- AUTO	191

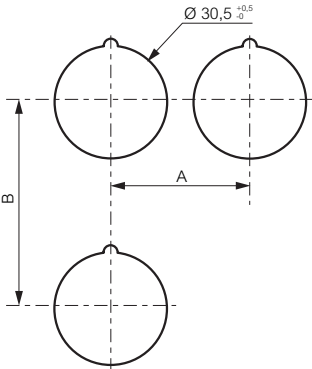
Panel cut-out $\varnothing 30$

DRILLING

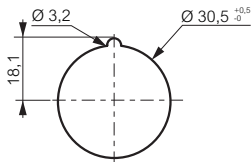
For heads equipped with electrical blocks with screw terminals

Minimum interval (mm)

A	> 40	For mushroom head $\varnothing 40$
	> 50	For selector switch with Long handle
	> 70	For mushroom head $\varnothing 70$
B	> 50	For double touch
	> 50	For legend plates
	> 70	For mushroom head $\varnothing 70$



DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



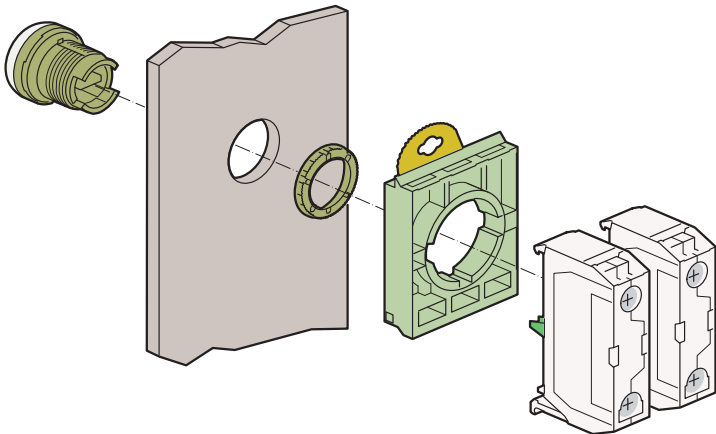
Technical characteristics ø 30

► GENERAL

Characteristics	Data	Standards
► Storage temperature for illuminated or non illuminated button	- 40°C to + 70°C	
► Operating temperature	Non illuminated buttons: - 25°C to + 70°C Illuminated buttons: - 25°C to + 60°C	
► Degree of protection	IP 65 for standard heads IP 67 for shrouded heads	IEC 60947-1
► Mechanical life	Spring return push button: 3 x 10 ⁶ operating cycles	IEC 60947-5-1

The blocks used for diameter 30 are the same as for diameter 22.
Their characteristics are described on p. 95

► MOUNTING THE BLOCKS



Protection, flexibility and safety

Cam switches from 10 to 200 A

► STANDARD SOLUTIONS P. 124 - 202

The expertise of a specialist like Baco allows us to offer made-to-measure solutions, even the most specific.



Choice of diagram
from 1 to 24 contacts

Metal shaft
can withstand more than
1 million operations

**Customised
engravings**

► ADVANTAGES

- Conform to European and international standards: IEC, UL and CSA
- A metal shaft capable of withstanding more than 1 million operations
- More than 50 000 different diagrams available
- Many specific functions and special markings

► MADE-TO-MEASURE SOLUTIONS

How do I order a switch in 5 steps?

Example: A change-over switch without off

- 1 DETERMINE THE RATING according to the electrical specifications** **p. 205**
 Voltage, performance, etc (p. 203).
EG: for switching of resistive loads 63A
 - RATING: PR 63
 - PRICE LIST CODE: I
- 2 SELECT A DIAGRAM AND ITS SWITCHING ANGLE** **p. 206**
EG: for a 2 way switch without off, with 1 pole
EG: for a switching angle of 90°
 - CAT. No. 2251
 - PRICE LIST CODE: A02Z
 - CAT. No. A4
 - PRICE LIST CODE: -
- 3 DETERMINE THE MOUNTING METHOD** **p. 239**
 front or rear mounting, with screws or on DIN rail.
EG: for rear mounting 68 mm interval
 - CAT. No. S
 - PRICE LIST CODE: Y508
- 4 DEFINE THE PRESENTATION** **p. 253**
 Plate, frame and handle, padlockable, with clutch drive, in enclosure, with key locking, coupling in parallel or in series, dual-voltage device, etc
EG: for a □ 72 frame with a medium handle
 - CAT. No. Q72 MN
 - PRICE LIST CODE: Q72 MN
- 5 SELECT YOUR OPTIONS** **p. 268**
 Handles and long handles, legends, legend plate, terminal cover, etc
EG: for a 72 "pump 1 pump 2" engraving
 - engraving
"pump 1 -
pump 2"
 - PRICE LIST CODE: Y000

Example of grid to be used for your order

	Rating	Diagram	Mounting	Presentation	Option 1	Option 2...
DESIGNATION	PR 63	2251 A4	S	Q72 MN	"pump 1 - pump 2"	-
PRICE LIST CODE	I	A02Z -	Y508	Q72 MN	Y000	-
Observations	PR 63 AC21 = 63 A	2 way without off, 1 pole 90° switching angle	Rear mounting	□ 72 plate and frame presentation Medium handle	Standard engraving	

Cam switches

 Characteristics (p. 203)

► ON-OFF SWITCH

No. of contacts	0	1		
1-2		X	1P	1
3-4		X	2P	2
5-6		X	3P	5
7-8		X	4P	6

MINI CAM SWITCH - 10 A (AC21)

ø 16 and 22 single hole front mounting

Cat. No.



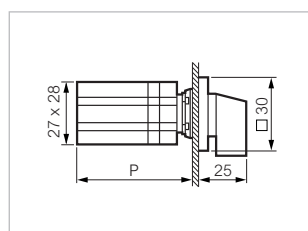
223501

□ 30 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



223501
223502
223503
223504



Dimensions in mm
*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NB02AQ1

Designation

Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E Q48PN
PR12 1102 A4 E Q48PN
PR12 1103 A4 E Q48PN
PR12 1104 A4 E Q48PN

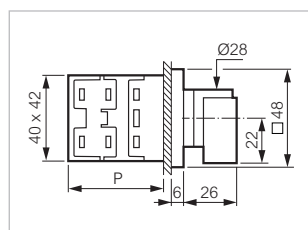
NB01AQ1
NB02AQ1
NB03AQ1
NB04AQ1

1P - 1 contact
2P - 2 contacts
3P - 3 contacts



PR12 1101 A8 E Q48PN
PR12 1102 A8 E Q48PN
PR12 1103 A8 E Q48PN

NB01EQ1
NB02EQ1
NB03EQ1



Dimensions in mm
*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

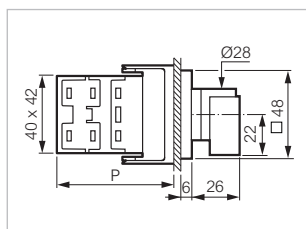
PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NB03EX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)

Designation

Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E N48MD50
PR12 1102 A4 E N48MD50
PR12 1103 A4 E N48MD50
PR12 1104 A4 E N48MD50

NB01AX80
NB02AX80
NB03AX80
NB04AX80

1P - 1 contact
2P - 2 contacts
3P - 3 contacts



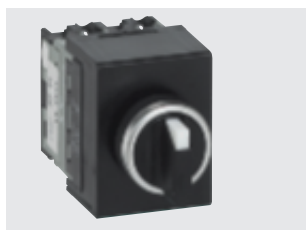
PR12 1101 A8 E N48MD50
PR12 1102 A8 E N48MD50
PR12 1103 A8 E N48MD50

NB01EX80
NB02EX80
NB03EX80

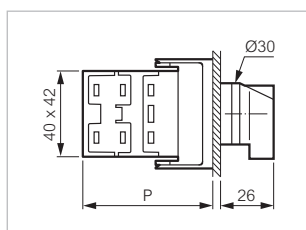
PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NB03AC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)

Designation

Selector switch style handle
Matt chrome plastic bezel

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E C21RA03
PR12 1102 A4 E C21RA03
PR12 1103 A4 E C21RA03
PR12 1104 A4 E C21RA03

NB01AC113
NB02AC113
NB03AC113
NB04AC113

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NB02AGQ

Grey/black small handle
□ 48 aluminium plate

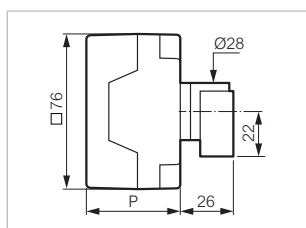
1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR12 1101 A4 BPRQ48PN
PR12 1102 A4 BPRQ48PN
PR12 1103 A4 BPRQ48PN
PR12 1104 A4 BPRQ48PN

NB01AGQ
NB02AGQ
NB03AHQ
NB04AHQ

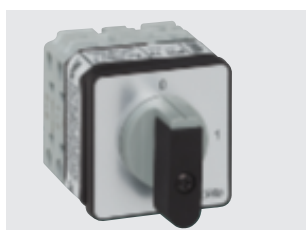


Dimensions in mm
*P: 46 (1-2 CONTACTS)
58 (3-4 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SB04AQ1

Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR17 1101 A4 E Q48PN
PR17 1102 A4 E Q48PN
PR17 1103 A4 E Q48PN
PR17 1104 A4 E Q48PN

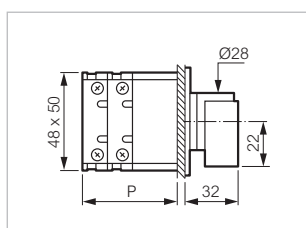
SB01AQ1
SB02AQ1
SB03AQ1
SB04AQ1

3P - 3 contacts
4P - 4 contacts



PR17 1103 A8 E Q48PN
PR17 1104 A8 E Q48PN

SB03EQ1
SB04EQ1



Dimensions in mm
*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

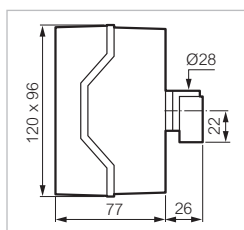
 Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

PR 17 -20 A (AC21)	Enclosure	Cat. No.
--------------------	-----------	----------



SB02AXQ



Black small handle
□ 64 aluminium plate

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts

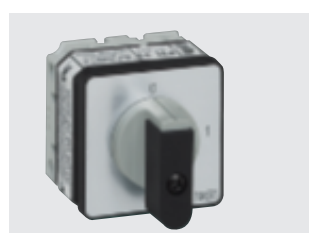


Designation

PR17 1101 A4 BCQ3
PR17 1102 A4 BCQ3
PR17 1103 A4 BCQ3
PR17 1104 A4 BCQ3

SB01AXQ
SB02AXQ
SB03AXQ
SB04AXQ

PR 21 -25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
--------------------	---------------------------------------	----------



TB01AQ1

Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR21 1101 A4 E Q48PN
PR21 1102 A4 E Q48PN
PR21 1103 A4 E Q48PN
PR21 1104 A4 E Q48PN

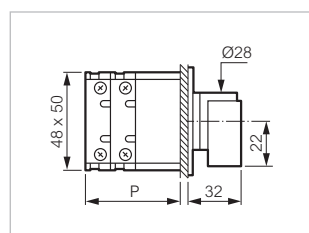
TB01AQ1
TB02AQ1
TB03AQ1
TB04AQ1

3P - 3 contacts



PR21 1103 A8 E Q48PN

TB03EQ1

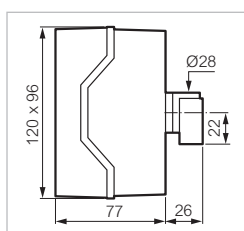


Dimensions in mm
*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)

PR 21 -25 A (AC21)	Enclosure	Cat. No.
--------------------	-----------	----------



TB01AXQ



Black small handle
□ 64 aluminium plate

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR21 1101 A4 BCQ3
PR21 1102 A4 BQ3
PR21 1103 A4 BCQ3
PR21 1104 A4 BCQ3

TB01AXQ
TB02AXQ
TB03AXQ
TB04AXQ

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

► ON-OFF SWITCH (CONTINUED)

PR 26 -32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZB04AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

Designation

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR26 1101 A4 E Q72MN
PR26 1102 A4 E Q72MN
PR26 1103 A4 E Q72MN
PR26 1104 A4 E Q72MN

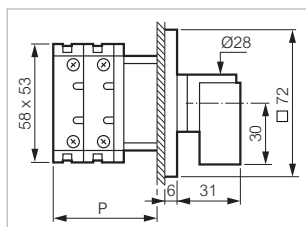
ZB01AQ7
ZB02AQ7
ZB03AQ7
ZB04AQ7

3P - 3 contacts



PR26 1103 A8 E Q72MN

ZB03EQ7



Dimensions in mm
*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)

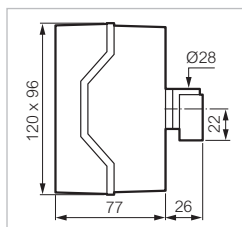
PR 26 -32 A (AC21)

Enclosure

Cat. No.



ZB02AXQ



Black small handle
□ 72 aluminium plate

Designation

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR26 1101 A4 BCQ3
PR26 1102 A4 BCQ3
PR26 1103 A4 BCQ3
PR26 1104 A4 BCQ3

ZB01AXQ
ZB02AXQ
ZB03AXQ
ZB04AXQ

PR 40 -50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HB03AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

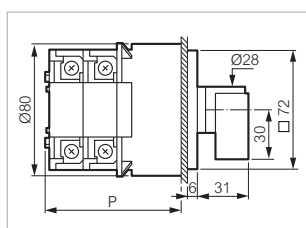
Designation

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR40 1101 A4 E Q72MN
PR40 1102 A4 E Q72MN
PR40 1103 A4 E Q72MN
PR40 1104 A4 E Q72MN

HB01AQ7
HB02AQ7
HB03AQ7
HB04AQ7



Dimensions in mm
*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

▶ ON-OFF SWITCH (CONTINUED)

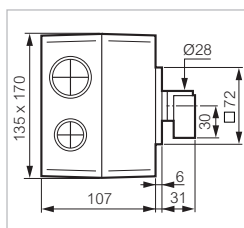
PR 40 -50 A (AC21)

Enclosure

Cat. No.



HB02AAQ



Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR40 1101 A4 BCFQ72MN
PR40 1102 A4 BCFQ72MN
PR40 1103 A4 BCFQ72MN
PR40 1104 A4 BCFQ72MN

HB01AAQ
HB02AAQ
HB03ABQ
HB04ABQ

PR 63 -63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IB03AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

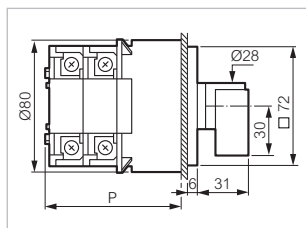
1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR63 1101 A4 E Q72MN
PR63 1102 A4 E Q72MN
PR63 1103 A4 E Q72MN
PR63 1104 A4 E Q72MN

IB01AQ7
IB02AQ7
IB03AQ7
IB04AQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)

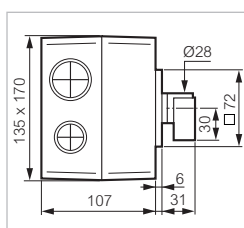
PR 63 -63 A (AC21)

Enclosure

Cat. No.



IB02AAQ



Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR63 1101 A4 BCF140Q72MN
PR63 1102 A4 BCF140Q72MN
PR63 1103 A4 BCF240Q72MN
PR63 1104 A4 BCF240Q72MN

IB01AAQ
IB02AAQ
IB03ABQ
IB04ABQ

*P = Depth

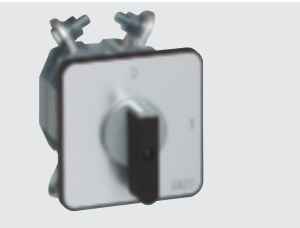
Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

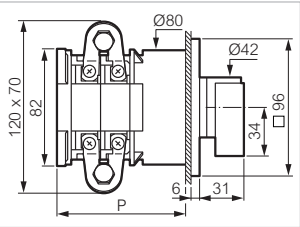
► ON-OFF SWITCH (CONTINUED)

PR 125 -160 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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LB02AQ9

Designation	
Grey/black large handle	
□ 96 aluminium plate and frame	
1P - 1 contact	PR125 1101 A4 E Q96GN
2P - 2 contacts	PR125 1102 A4 E Q96GN
3P - 3 contacts	PR125 1103 A4 E Q96GN
4P - 4 contacts	PR125 1104 A4 E Q96GN
	LB01AQ9
	LB02AQ9
	LB03AQ9
	LB04AQ9



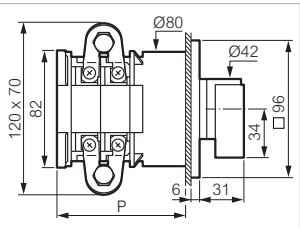
Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)

PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
----------------------	---------------------------------------	----------



MB02AQ9

Designation	
Grey/black large handle	
□ 96 aluminium plate and frame	
1P - 1 contact	PR160 1101 A4 E Q96GN
2P - 2 contacts	PR160 1102 A4 E Q96GN
3P - 3 contacts	PR160 1103 A4 E Q96GN
4P - 4 contacts	PR160 1104 A4 E Q96GN
	MB01AQ9
	MB02AQ9
	MB03AQ9
	MB04AQ9



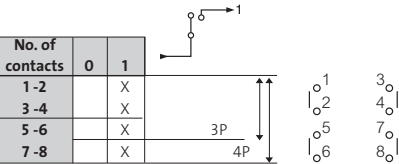
Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

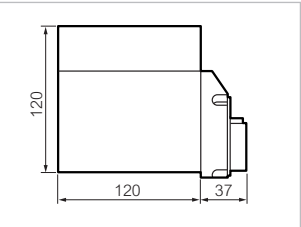
MAIN SWITCH



PR 125 - 160 A (AC21) 2-screw panel mount - interval: 50 mm Cat. No.



LS3EV733

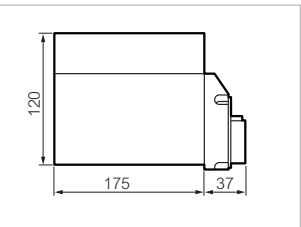


Designation			
Red padlockable handle for up to 4 padlocks □ 72 yellow frame			
With engraving			
MAIN SWITCH			
3P+ $\pm$ - 3 contacts		PR125 1103GN E J723MND61	LS3EV733
3P+N - 4 contacts		PR125 1104GN E J723MND61	LS4EV733
Without engraving			
3P+ $\pm$ - 3 contacts		PR125 1103GN E J72MND61	LS3EV72
3P+N - 4 contacts		PR125 1104GN E J72MND61	LS4EV72

PR 125 - 160 A (AC21) 2-screw panel mount - interval: 50 mm Cat. No.



LG3EV733

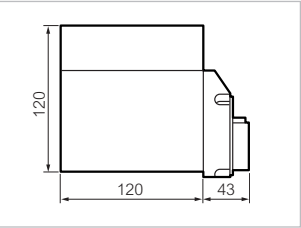


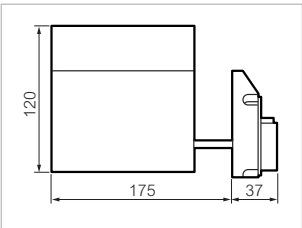
Designation			
Grey padlockable handle for up to 4 padlocks □ 72 grey frame			
With engraving			
MAIN SWITCH			
3P+ $\pm$ - 3 contacts		PR125 1103GN E V723MND61	LG3EV733
3P+N - 4 contacts		PR125 1104GN E V723MND61	LG4EV733
Without engraving			
3P+ $\pm$ - 3 contacts		PR125 1103GN E V72MND61	LG3EV72
3P+N - 4 contacts		PR125 1104GN E V72MND61	LG4EV72

Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

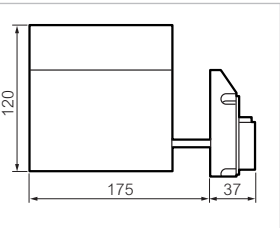
PR 125 - 160 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.	
 LS3EV973	Red padlockable handle for up to 4 padlocks □ 96 yellow frame With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts	Designation PR125 1103GN E J963GND61 LS3EV973 PR125 1104GN E J963GND61 LS4EV973	
			

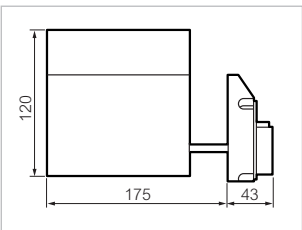
PR 125 - 160 A (AC21)	Rear mounting with clutch drive and door interlock		Cat. No.
 LS3RV733	Red padlockable handle for up to 4 padlocks □ 72 yellow frame Clutch drive and door interlock With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts	Designation PR125 1103GN SV6 J723MND61 LS3RV733 PR125 1104GN SV6 J723MND61 LS4RV733	
		Without engraving 3P+ ÷ - 3 contacts 3P+N - 4 contacts	
			

Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

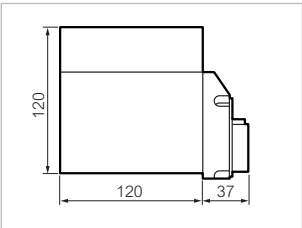
PR 125 - 160 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
 LG3RV733	Grey padlockable handle for up to 4 padlocks □ 72 grey frame With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts Without engraving 3P+ ÷ - 3 contacts 3P+N - 4 contacts	Designation	
		PR125 1103GN SV6 V723MND61	LG3RV733
		PR125 1104GN SV6 V723MND61	LG4RV733
		PR125 1103GN SV6 V72MND61	LG3RV72
		PR125 1104GN SV6 V72MND61	LG4RV72
			

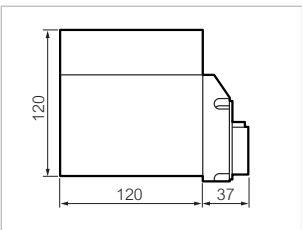
PR 125 - 160 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
 LS3RV973	Red padlockable handle for up to 4 padlocks □ 96 yellow frame With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts 	Designation	
		PR125 1103GN SV6 J963GND61	LS3RV973
		PR125 1104GN SV6 J963GND61	LS4RV973
			

Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

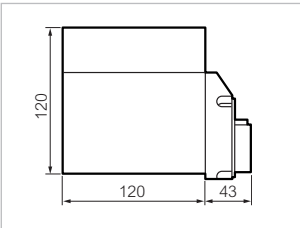
PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.	
 MS3EV733	Red padlockable handle for up to 4 padlocks □ 72 yellow frame With engraving MAIN SWITCH 3P+ $\pm$ - 3 contacts  3P+N - 4 contacts Without engraving 3P+ $\pm$ - 3 contacts  3P+N - 4 contacts	Designation	
		PR160 1103GN E J723MND61	MS3EV733
		PR160 1104GN E J723MND61	MS4EV733
		PR160 1103GN E J72MND61	MS3EV72
		PR160 1104GN E J72MND61	MS4EV72
			

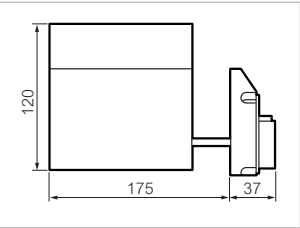
PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.	
 MG3EV733	Grey padlockable handle for up to 4 padlocks □ 72 grey frame With engraving MAIN SWITCH 3P+ ± - 3 contacts  3P+N - 4 contacts Without engraving 3P+ ± - 3 contacts  3P+N - 4 contacts	Designation	
		PR160 1103GN E V723MND61	MG3EV733
		PR160 1104GN E V723MND61	MG4EV733
		PR160 1103GN E V72MND61	MG3EV72
		PR160 1104GN E V72MND61	MG4EV72
			

Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

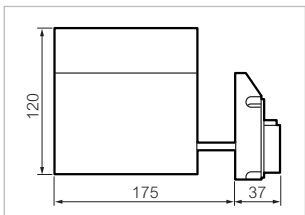
PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.	
	Red padlockable handle for up to 4 padlocks □ 96 yellow frame With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts	Designation	
		PR160 1103GN E J963GND61	MS3EV973
		PR160 1104GN E J963GND61	MS4EV973
			

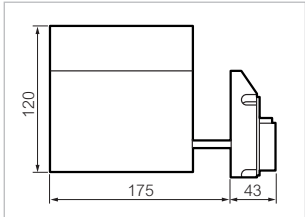
PR 160 -200 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
 MS3RV733	Red padlockable handle for up to 4 padlocks □ 72 yellow frame Clutch drive and door interlock With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts	Designation	
		PR160 1103GN SV6 J723MND61 PR160 1104GN SV6 J723MND61	MS3RV733 MS4RV733
	Without engraving 3P+ ÷ - 3 contacts 3P+N - 4 contacts	PR160 1103GN SV6 J72MND61 PR160 1104GN SV6 J72MND61	
		MS3RV72 MS4RV72	

Cam switches

 Characteristics (p. 203)

► MAIN SWITCH (CONTINUED)

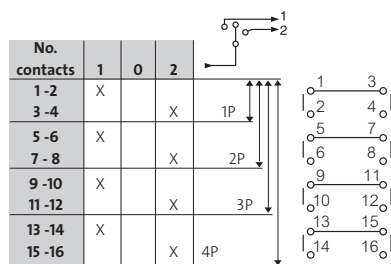
PR 160 -200 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
 MG4RV733	Grey padlockable handle for up to 4 padlocks □ 72 grey frame With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts Without engraving 3P+ ÷ - 3 contacts 3P+N - 4 contacts	Designation	
		PR160 1103GN SV6 V723MND61 MG3RV733 PR160 1104GN SV6 V723MND61 MG4RV733	
		PR160 1103GN SV6 V72MND61 MG3RV72 PR160 1104GN SV6 V72MND61 MG4RV72	
			

PR 160 -200 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
 MS4RV973	Red padlockable handle for up to 4 padlocks □ 96 yellow frame With engraving MAIN SWITCH 3P+ ÷ - 3 contacts 3P+N - 4 contacts 	Designation PR160 1103GN SV6 V963GND61 MS3RV973 PR160 1104GN SV6 V963GND61 MS4RV973	
			

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

Ø 16 and Ø 22 mm single hole front mounting

Cat. No.



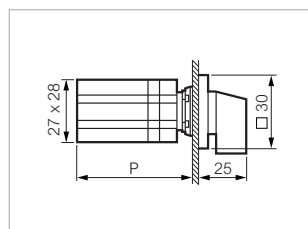
223505

☐ 30 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



223505
223506
223507
223508



Dimensions in mm

*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)
74 (5-6 CONTACTS)
96 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC02GQ1

Designation

Grey/black small handle
☐ 48 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E Q48PN
PR12 2202 C8 E Q48PN
PR12 2203 C8 E Q48PN
PR12 2204 C8 E Q48PN

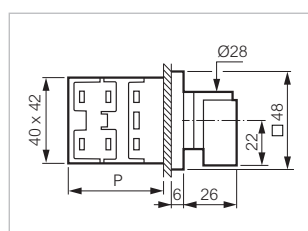
NC01GQ1
NC02GQ1
NC03GQ1
NC04GQ1

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts



PR12 2201 C4 E Q48PN
PR12 2202 C4 E Q48PN
PR12 2203 C4 E Q48PN

NC01CQ1
NC02CQ1
NC03CQ1



Dimensions in mm

*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)
56 (5-6 CONTACTS)
66 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC02GX80

Grey/black small handle
□ 48 aluminium plate and frame

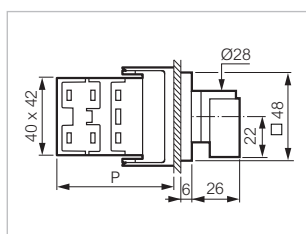
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E N48MD50
PR12 2202 C8 E N48MD50
PR12 2203 C8 E N48MD50
PR12 2204 C8 E N48MD50

NC01GX80
NC02GX80
NC03GX80
NC04GX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC02GC113

Black handle
Matt chrome plastic bezel

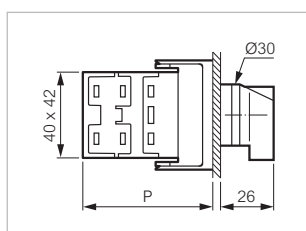
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E C21RA03
PR12 2202 C8 E C21RA03
PR12 2203 C8 E C21RA03
PR12 2204 C8 E C21RA03

NC01GC113
NC02GC113
NC03GC113
NC04GC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NC01GXQ

Black small handle
□ 64 aluminium plate

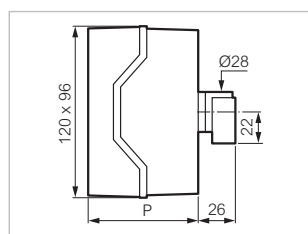
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR12 2201 C8 BCQ3
PR12 2202 C8 BCQ3
PR12 2203 C8 BCQ3
PR12 2204 C8 BCQ3

NC01GXQ
NC02GXQ
NC03GXQ
NC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SC04GQ1

Grey/black small handle
□ 48 aluminium plate and frame

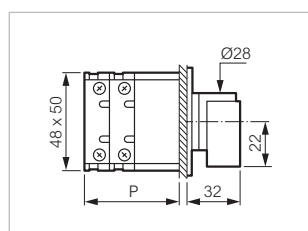
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2201 C8 E Q48PN
PR17 2202 C8 E Q48PN
PR17 2203 C8 E Q48PN
PR17 2204 C8 E Q48PN

SC01GQ1
SC02GQ1
SC03GQ1
SC04GQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

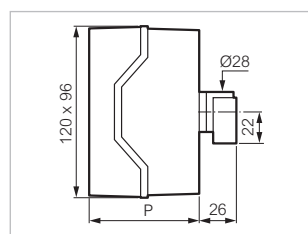
Cam switches



Characteristics (p. 203)

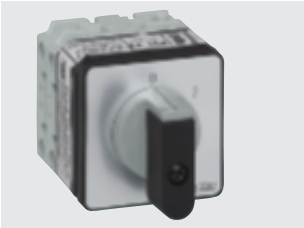
► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

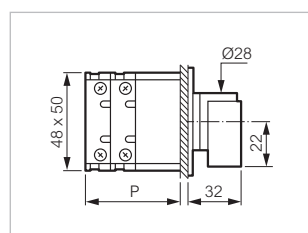
PR 17 - 20 A (AC21)	Enclosure		Cat. No.
 SC01GXQ	Black small handle □ 64 aluminium plate	Designation	
	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR17 2201 C8 BCQ3 PR17 2202 C8 BCQ3 PR17 2203 C8 BCQ3 PR17 2201 C8 BCQ3 SC01GXQ SC02GXQ SC03GXQ SC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm		Cat. No.
 TC02GQ1	Grey/black small handle □ 48 aluminium plate and frame	Designation	
	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR21 2201 C8 E Q48PN PR21 2202 C8 E Q48PN PR21 2203 C8 E Q48PN PR21 2204 C8 E Q48PN TC01GQ1 TC02GQ1 TC03GQ1 TC04GQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TC03GXQ

Black small handle
□ 64 aluminium plate

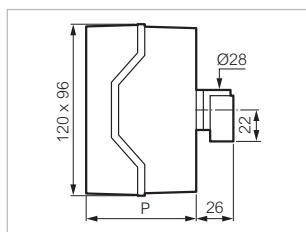
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2201 C8 BCQ3
PR21 2202 C8 BCQ3
PR21 2203 C8 BCQ3
PR21 2204 C8 BCQ3

TC01GXQ
TC02GXQ
TC03GXQ
TC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZC02GQ7

Grey/black medium handle
□ 72 aluminium plate and frame

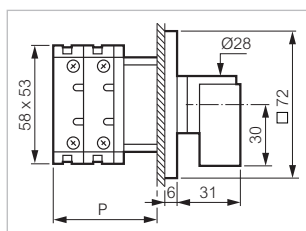
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2201 C8 E Q72MN
PR26 2202 C8 E Q72MN
PR26 2203 C8 E Q72MN
PR26 2204 C8 E Q72MN

ZC01GQ7
ZC02GQ7
ZC03GQ7
ZC04GQ7



Dimensions in mm

*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)
66 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

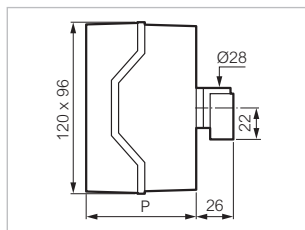


Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)	Enclosure		Designation	Cat. No.
	Black small handle □ 64 aluminium plate			
	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR26 2201 C8 BCQ3 PR26 2202 C8 BCQ3 PR26 2203 C8 BCQ3 PR26 2204 C8 BCQ3	ZC01GXQ ZC02GXQ ZC03GXQ ZC04GXQ

ZC04GXQ

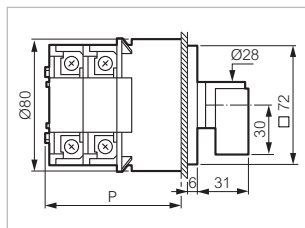


Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm		Designation	Cat. No.
	Grey/black medium handle □ 72 aluminium plate and frame			
	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR40 2201 C8 E Q72MN PR40 2202 C8 E Q72MN PR40 2203 C8 E Q72MN PR40 2204 C8 E Q72MN	HC01GQ7 HC02GQ7 HC03GQ7 HC04GQ7

HC03GQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

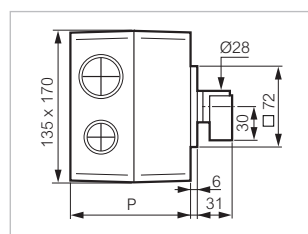


Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)	Enclosure		Designation	Cat. No.
	Grey/black medium handle □ 72 aluminium plate and frame			
1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR40 2201 C8 BCFQ72MN PR40 2202 C8 BCFQ72MN PR40 2203 C8 BCFQ72MN PR40 2204 C8 BCFQ72MN	HC01GAQ HC02GBQ HC03GCQ HC04GDQ	

HC01GAQ

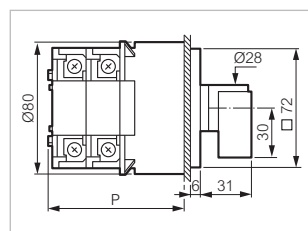


Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 TO 8 CONTACTS)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
	Designation Grey/black medium handle □ 72 aluminium plate and frame 1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts 	PR63 2201 C8 E Q72MN PR63 2202 C8 E Q72MN PR63 2203 C8 E Q72MN PR63 2204 C8 E Q72MN IC01GQ7 IC02GQ7 IC03GQ7 IC04GQ7
IC02GQ7		

IC02GQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IC02GBQ

Grey/black medium handle
□ 72 aluminium plate and frame

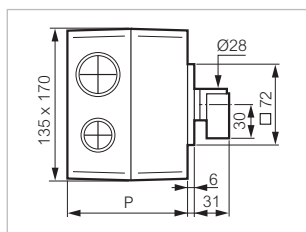
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR63 2201 C8 BCFQ72MN
PR63 2202 C8 BCFQ72MN
PR63 2203 C8 BCFQ72MN
PR63 2204 C8 BCFQ72MN

IC01GAQ
IC02GBQ
IC03GCQ
IC04GDQ



Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 TO 8 CONTACTS)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LC02GQ9

Grey/black large handle
□ 96 aluminium plate and frame

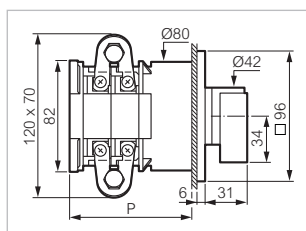
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR125 2201 C8 E Q96GN
PR125 2202 C8 E Q96GN
PR125 2203 C8 E Q96GN
PR125 2204 C8 E Q96GN

LC01GQ9
LC02GQ9
LC03GQ9
LC04GQ9



Dimensions in mm

*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

*P = Depth

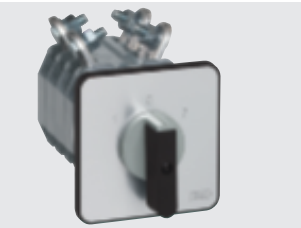
Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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MC02GQ9

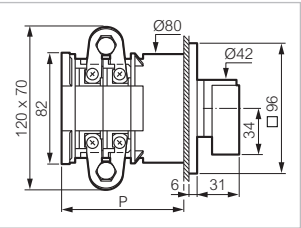
Grey/black large handle
□ 96 aluminium plate and frame

- 1P - 2 contacts
- 2P - 4 contacts
- 3P - 6 contacts
- 4P - 8 contacts



Designation

PR160 2201 C8 E Q96GN	MC01GQ9
PR160 2202 C8 E Q96GN	MC02GQ9
PR160 2203 C8 E Q96GN	MC03GQ9
PR160 2204 C8 E Q96GN	MC04GQ9

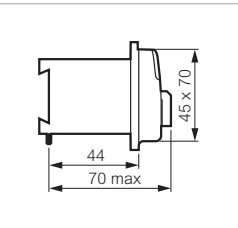


Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

PR 12 - 16 A (AC21)	Modular in panel DIN rail mounting	Cat. No.
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NDF15



Small grey handle

- 2P - 4 contacts



Designation

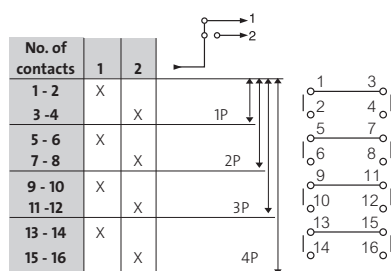
PR12 2202 C8 DF	NDF15
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*P = Depth

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

Ø 16 and Ø 22 mm single hole front mounting

Cat. No.



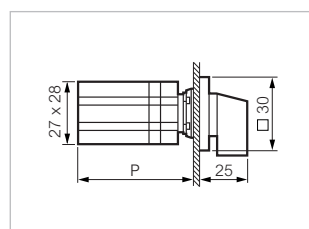
223511

☐ 30 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



223511
223512
223513
223514



Dimensions in mm
*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)
74 (5-6 CONTACTS)
86 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC53DQ1

Designation

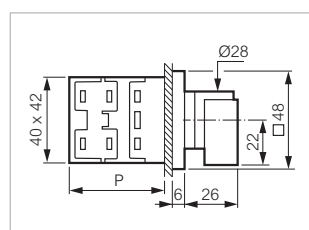
Grey/black small handle
☐ 48 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E Q48PN
PR12 2252 D4 E Q48PN
PR12 2253 D4 E Q48PN
PR12 2254 D4 E Q48PN

NC51DQ1
NC51DQ1
NC53DQ1
NC54DQ1



Dimensions in mm
*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)
56 (5-6 CONTACTS)
66 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC53DX80

Grey/black small handle
□ 48 aluminium plate and frame

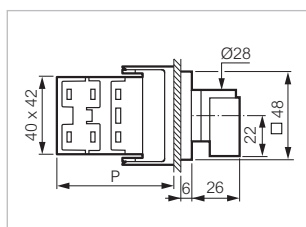
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E N48MD50
PR12 2252 D4 E N48MD50
PR12 2253 D4 E N48MD50
PR12 2254 D4 E N48MD50

NC51DX80
NC52DX80
NC53DX80
NC54DX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC52DC113

Black handle
Matt chrome plastic bezel

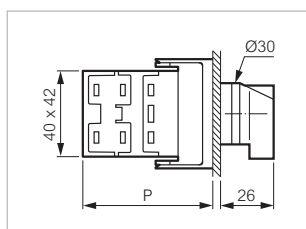
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E C21RA03
PR12 2252 D4 E C21RA03
PR12 2253 D4 E C21RA03
PR12 2254 D4 E C21RA03

NC51DC113
NC52DC113
NC53DC113
NC54DC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

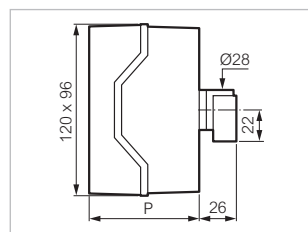
Cam switches

 Characteristics (p. 203)

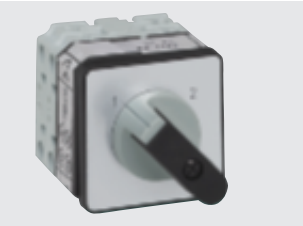
► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)	Enclosure	Cat. No.		
	Black small handle □ 64 aluminium plate	Designation		
	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR12 2251 D4 BCQ3 PR12 2252 D4 BCQ3 PR12 2253 D4 BCQ3 PR12 2254 D4 BCQ3	NC51DXQ NC52DXQ NC53DXQ NC54DXQ

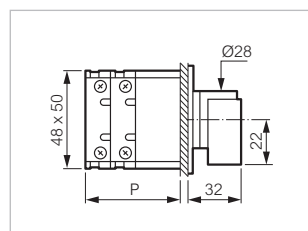
NC51DXQ



Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7 TO 8 CONTACTS)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.		
	Grey/black small handle □ 48 aluminium plate and frame	Designation		
	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR17 2251 D4 E Q48PN PR17 2252 D4 E Q48PN PR17 2253 D4 E Q48PN PR17 2254 D4 E Q48PN	SC51DQ1 SC52DQ1 SC53DQ1 SC54DQ1

SC52DQ1



Dimensions in mm
 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)
 57 (5-6 CONTACTS)
 69 (7-8 CONTACTS)

*P = Depth

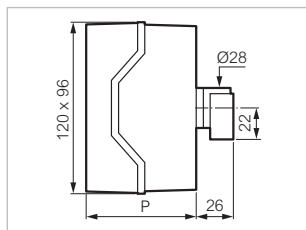
Cam switches



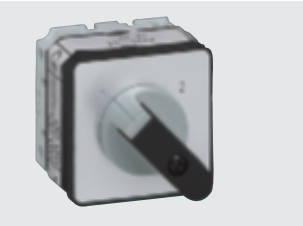
Characteristics (p. 203)

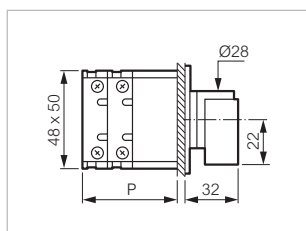
► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)	Enclosure		Cat. No.
 SC51DXQ	Black small handle	Designation PR17 2251 D4 BCQ3 PR17 2252 D4 BCQ3 PR17 2253 D4 BCQ3 PR17 2254 D4 BCQ3	
	□ 64 aluminium plate		
	1P - 2 contacts		SC51DXQ
	2P - 4 contacts		SC52DXQ
	3P - 6 contacts		SC53DXQ
	4P - 8 contacts		SC54DXQ



Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7 TO 8 CONTACTS)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm		Cat. No.
 TC51DQ1	Grey/black small handle	Designation PR21 2251 D4 E Q48PN PR21 2252 D4 E Q48PN PR21 2253 D4 E Q48PN PR21 2254 D4 E Q48PN	
	□ 48 aluminium plate and frame		
	1P - 2 contacts		TC51DQ1
	2P - 4 contacts		TC52DQ1
	3P - 6 contacts		TC53DQ1
	4P - 8 contacts		TC54DQ1



Dimensions in mm
 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)
 57 (5-6 CONTACTS)
 69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TC53DXQ

Black small handle
□ 64 aluminium plate

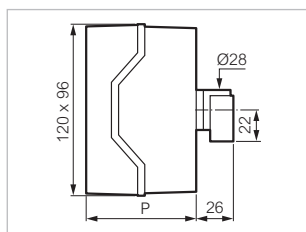
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2251 D4 BCQ3
PR21 2252 D4 BCQ3
PR21 2253 D4 BCQ3
PR21 2254 D4 BCQ3

TC51DXQ
TC52DXQ
TC53DXQ
TC54DXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7 TO 8 CONTACTS)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZC52DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

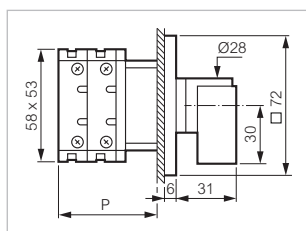
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2251 D4 E Q72MN
PR26 2252 D4 E Q72MN
PR26 2253 D4 E Q72MN
PR26 2254 D4 E Q72MN

ZC51DQ7
ZC52DQ7
ZC53DQ7
ZC54DQ7



Dimensions in mm

*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)
66 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZC51DXQ

Black small handle
□ 64 aluminium plate

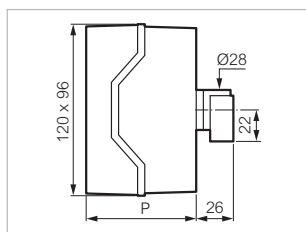
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2251 D4 BCQ3
PR26 2252 D4 BCQ3
PR26 2253 D4 BCQ3
PR26 2254 D4 BCQ3

ZC51DXQ
ZC52DXQ
ZC53DXQ
ZC54DXQ



Dimensions in mm

*P: 77 (1 TO 4 CONTACTS)
101 (5 TO 8 CONTACTS)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HC52DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

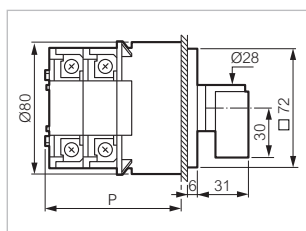
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR40 2251 D4 E Q72MN
PR40 2252 D4 E Q72MN
PR40 2253 D4 E Q72MN
PR40 2254 D4 E Q72MN

HC51DQ7
HC52DQ7
HC53DQ7
HC54DQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

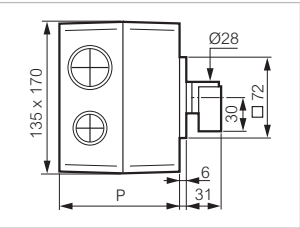
*P = Depth

Cam switches

 Characteristics (p. 203)

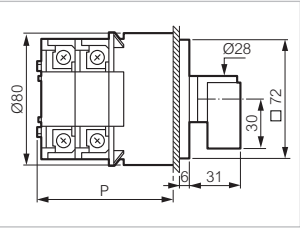
► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)	Enclosure		Cat. No.
	Grey/black medium handle □ 72 aluminium plate and frame	Designation	
HC52DBQ	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR40 2251 D4 BCF Q72MN HC51DAQ PR40 2252 D4 BCF Q72MN HC52DBQ PR40 2253 D4 BCF Q72MN HC53DCQ PR40 2254 D4 BCF Q72MN HC54DDQ



Dimensions in mm
*P: 107 (1 TO 4 CONTACTS)
145 (5 À 8 CONTACTS)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm		Cat. No.
	Grey/black medium handle □ 72 aluminium plate and frame	Designation	
IC51DQ7	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR63 2251 D4 E Q72MN IC51DQ7 PR63 2252 D4 E Q72MN IC52DQ7 PR63 2253 D4 E Q72MN IC53DQ7 PR63 2254 D4 E Q72MN IC54DQ7



Dimensions in mm
*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 203)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IC52DBQ

Grey/black medium handle
□ 72 aluminium plate and frame

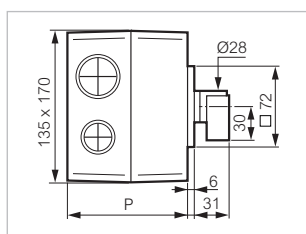
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR63 2251 D4 BCF Q72MN
PR63 2252 D4 BCF Q72MN
PR63 2253 D4 BCF Q72MN
PR63 2254 D4 BCF Q72MN

IC51DAQ
IC52DBQ
IC53DCQ
IC54DDQ



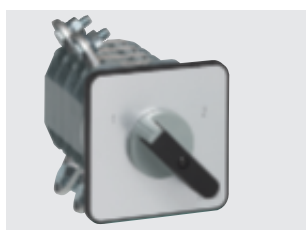
Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 À 8 CONTACTS)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LC52DQ9

Grey/black large handle
□ 96 aluminium plate and frame

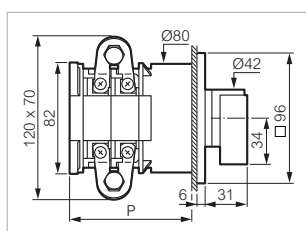
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR125 2251 D4 E Q96GN
PR125 2252 D4 E Q96GN
PR125 2253 D4 E Q96GN
PR125 2254 D4 E Q96GN

LC51DQ9
LC52DQ9
LC53DQ9
LC54DQ9



Dimensions in mm

*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

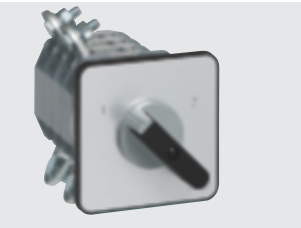
*P = Depth

Cam switches

 Characteristics (p. 203)

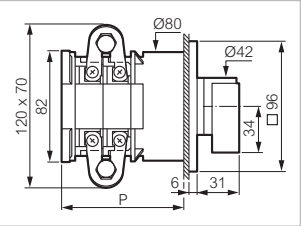
► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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MC52DQ9

Designation		
Grey/black large handle		
□ 96 aluminium plate and frame		
1P - 2 contacts		PR160 2251 D4 E Q96GN
2P - 4 contacts		PR160 2252 D4 E Q96GN
3P - 6 contacts		PR160 2253 D4 E Q96GN
4P - 8 contacts		PR160 2254 D4 E Q96GN
		MC51DQ9
		MC52DQ9
		MC53DQ9
		MC54DQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

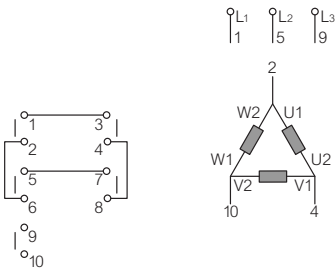
*P = Depth

Cam switches

 Characteristics (p. 203)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

No. of contacts	REV	0	FWD
1-2	X		
3-4			X
5-6			X
7-8	X		
9-10	X		X



PR 12 - 16 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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NZ11GQ1

Designation

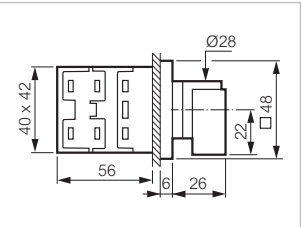
Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

5 contacts



PR12 9151 C8 E Q48PN

NZ11GQ1



PR 12 - 16 A (AC21)	Enclosure	Cat. No.
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NZ11GXQ

Designation

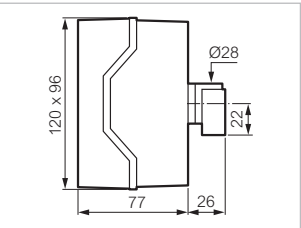
Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

5 contacts



PR12 9151 C8 BCQ3

NZ11GXQ



Cam switches

 Characteristics (p. 203)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SZ11GQ1

Designation

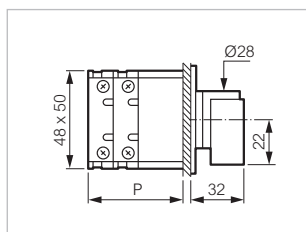
Grey/black small handle
□ 48 aluminium plate and frame
P= 7,5 kW in 400 V

5 contacts



PR17 9151 C8 E Q48PN

SZ11GQ1



PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SZ11GXQ

Designation

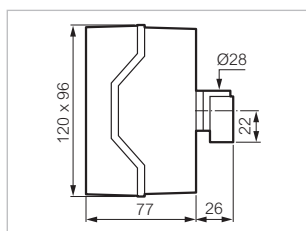
Black small handle
□ 64 aluminium plate
P= 7,5 kW in 400 V

5 contacts



PR17 9151 C8 BCQ3

SZ11GXQ

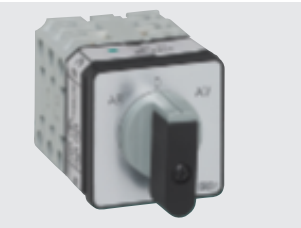


Cam switches

 Characteristics (p. 203)

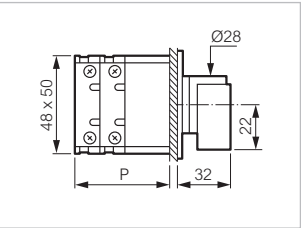
► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ11GQ1

Designation		
Grey/black small handle		
□ 48 aluminium plate and frame		
P= 7,5 kW in 400 V		
5 contacts		PR21 9151 C8 E Q48PN
		TZ11GQ1

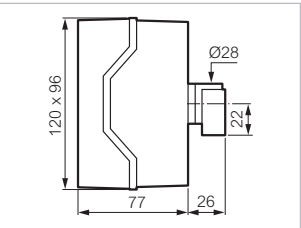


PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ11GXQ

Designation		
Black small handle		
□ 64 aluminium plate		
P= 7,5 kW in 400 V		
5 contacts		PR21 9151 C8 BCQ3
		TZ11GXQ



Cam switches

 Characteristics (p. 203)

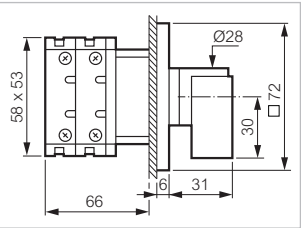
► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZZ11GQ7

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 11 kW in 400 V		
5 contacts		PR26 9151 C8 E Q72MN
		ZZ11GQ7

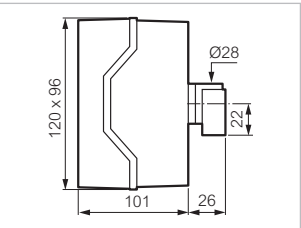


PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZZ11GXQ

Designation		
Black small handle		
□ 64 aluminium plate		
P= 11 kW in 400 V		
5 contacts		PR26 9151 C8 BCQ3
		ZZ11GXQ



Cam switches

 Characteristics (p. 203)

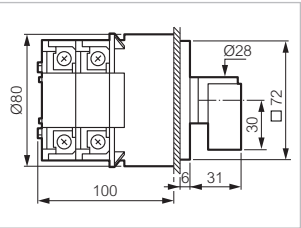
► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ11GQ7

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 18.5 kW in 400 V			
5 contacts		PR40 9151 C8 E Q72MN	HZ11GQ7

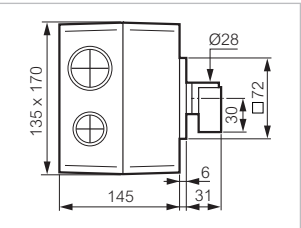


PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ11GCQ

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 18.5 kW in 400 V			
5 contacts		PR40 9151 C8 BCF Q72MN	HZ11GCQ



Cam switches

 Characteristics (p. 203)

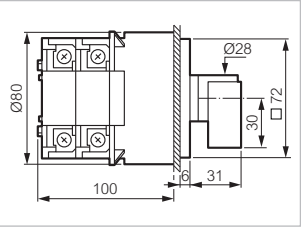
► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ11GQ7

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 22 kW in 400 V		
5 contacts		PR63 9151 C8 E Q72MN
		IZ11GQ7

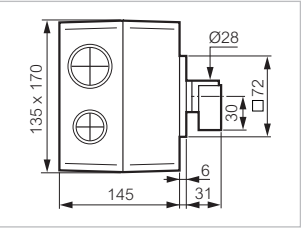


PR 63 - 63 A (AC21)	Enclosure	Cat. No.
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IZ11GXQ

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 22 kW in 400 V		
5 contacts		PR63 9151 C8 BCF Q72MN
		IZ11GXQ

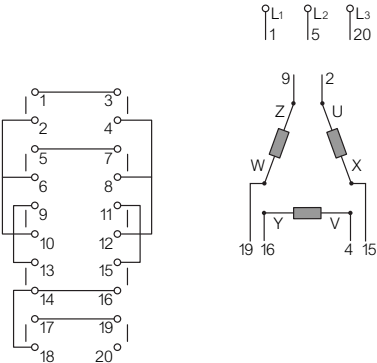


Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

No. of contacts	REV			FWD	
	Δ	Y	0	Δ	Y
1 - 2				X	X
3 - 4	X	X			
5 - 6	X	X			
7 - 8				X	X
9 - 10	X				X
11 - 12	X				X
13 - 14		X		X	
15 - 16		X		X	
17 - 18	X				X
19 - 20	X	X		X	X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NZ13GQ1

Designation

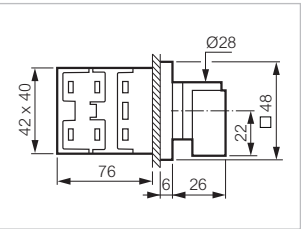
Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

10 contacts



PR12 9153 C8 E Q48PN

NZ13GQ1



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 12 - 16 A (AC21)	Enclosure	Cat. No.	
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NZ13GXQ

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

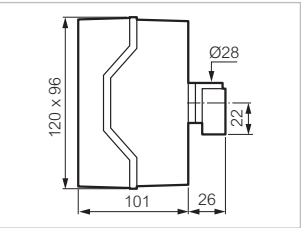
10 contacts



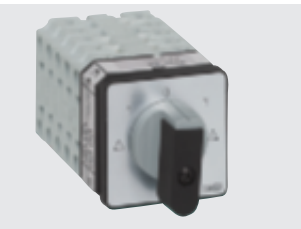
Designation

PR12 9153 C8 BCQ3

NZ13GXQ



PR 17 - 20 A (AC21)	2-crew panel mount – interval: 30 mm	Cat. No.	
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SZ13GQ1

Grey/black small handle
□ 48 aluminium plate and frame
P= 7,5 kW in 400 V

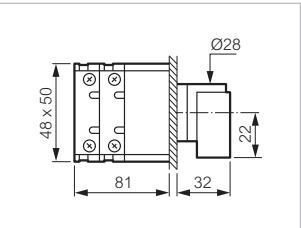
10 contacts



Designation

PR17 9153 C8 E Q48PN

SZ13GQ1

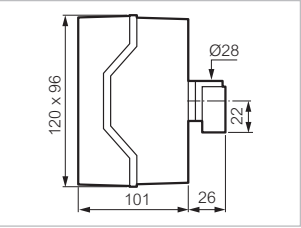


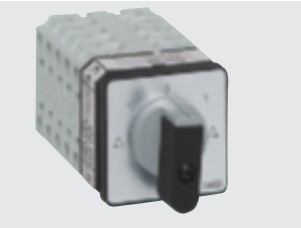
Cam switches

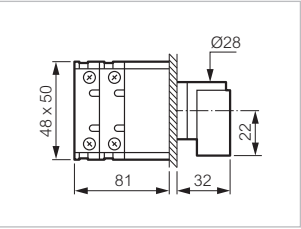
 Characteristics (p. 203)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)	Enclosure	Cat. No.		
 SZ13GXQ	Black small handle □ 64 aluminium plate P= 7,5 kW in 400 V	Designation		
	10 contacts		PR17 9153 C8 BCQ3	SZ13GXQ



PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.		
 TZ13GQ1	Grey/black small handle □ 48 aluminium plate and frame P= 7,5 kW in 400 V	Designation		
	10 contacts		PR21 9153 C8 E Q48PN	TZ13GQ1



Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	Enclosure	Cat. No.	
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TZ13GXQ

Black small handle
□ 64 aluminium plate
P= 7,5 kW in 400 V

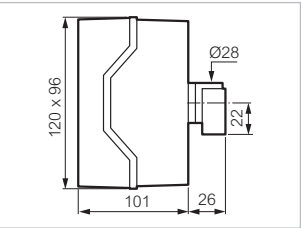
10 contacts



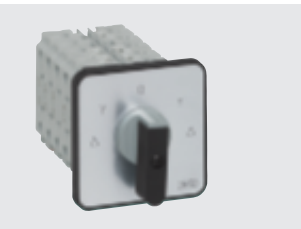
Designation

PR21 9153 C8 BCQ3

TZ13GXQ



PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.	
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ZZ13GQ7

Grey/black medium handle
□ 72 aluminium plate and frame
P= 11 kW in 400 V

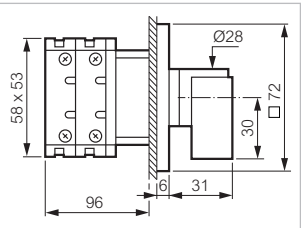
10 contacts



Designation

PR26 9153 C8 E Q72MN

ZZ13GQ7



Cam switches

 Characteristics (p. 203)

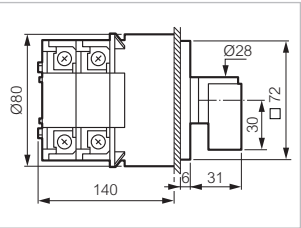
► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ13GQ7

Designation		
Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V		
10 contacts		PR40 9153 C8 E Q72MN HZ13GQ7

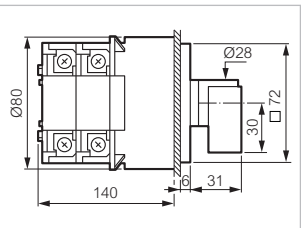


PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ13GQ7

Designation		
Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V		
10 contacts		PR63 9153 C8 E Q72MN IZ13GQ7

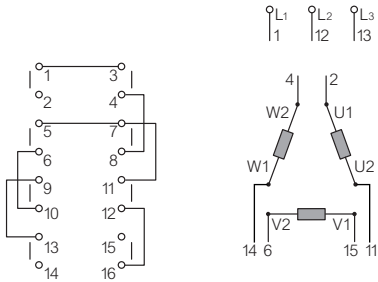


Cam switches

 Characteristics (p. 203)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR

No. of contacts	0	Y	Δ
1 - 2		X	X
3 - 4		X	
5 - 6	X	X	
7 - 8	X	X	
9 - 10			X
11 - 12			X
13 - 14	X	X	
15 - 16	X	X	



PR 12 - 16 A (AC21) 2- screw panel mount – interval: 30 mm Cat. No.



NZ51BQ1

Designation

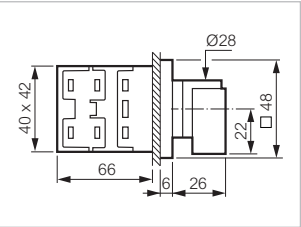
Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

8 contacts



PR12 9551 B4 E Q48PN

NZ51BQ1



PR 12 - 16 A (AC21) Enclosure Cat. No.



NZ51BXQ

Designation

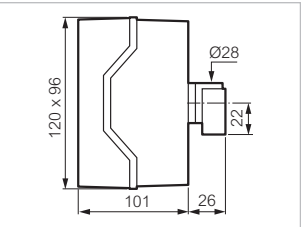
Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

8 contacts



PR12 9551 B4 BCQ3

NZ51BXQ



Cam switches

 Characteristics (p. 203)

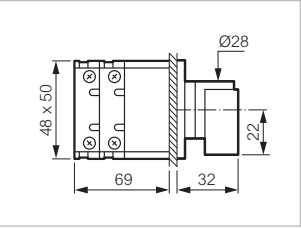
► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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SZ51BQ1

Designation		
Grey/black small handle □ 48 aluminium plate and frame P= 7,5 kW in 400 V		
8 contacts		PR17 9551 B4 E Q48PN SZ51BQ1

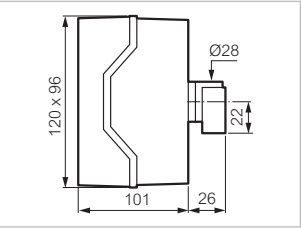


PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SZ51BXQ

Designation		
Black small handle □ 64 aluminium plate P= 7,5 kW in 400 V		
8 contacts		PR17 9551 B4 BCQ3 SZ51BXQ



Cam switches

 Characteristics (p. 203)

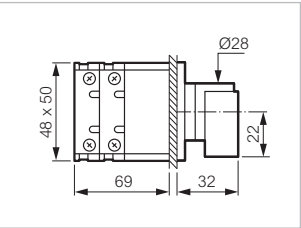
► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ51BQ1

Designation		
Grey/black small handle		
□ 48 aluminium plate and frame		
P= 7,5 kW in 400 V		
8 contacts		PR21 9551 B4 E Q48PN
		TZ51BQ1

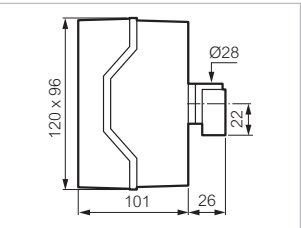


PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ51BXQ

Designation		
Black small handle		
□ 64 aluminium plate		
P= 7,5 kW in 400 V		
8 contacts		PR21 9551 B4 BCQ3
		TZ51BXQ

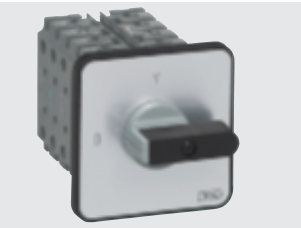


Cam switches

 Characteristics (p. 203)

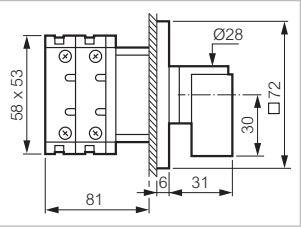
► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZZ51BQ7

Designation		
Grey/black medium handle □ 72 aluminium plate and frame P= 11 kW in 400 V		
8 contacts		PR26 9551 B4 E Q72MN ZZ51BQ7

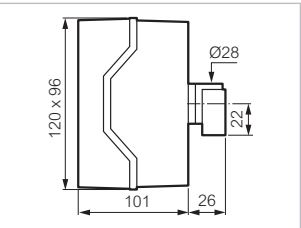


PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZZ51BXQ

Designation		
Black small handle □ 64 aluminium plate P= 11 kW in 400 V		
8 contacts		PR26 9551 B4 BCQ3 ZZ51BXQ



Cam switches

 Characteristics (p. 203)

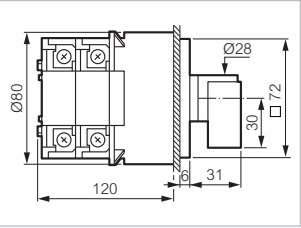
► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ51BQ7

Designation		
Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V		
8 contacts		PR40 9551 B4 E Q72MN HZ51BQ7

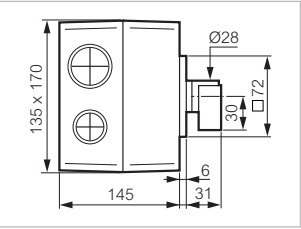


PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ51BDQ

Designation		
Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V		
8 contacts		PR40 9551 B4 BCF Q72MN HZ51BDQ



Cam switches

 Characteristics (p. 203)

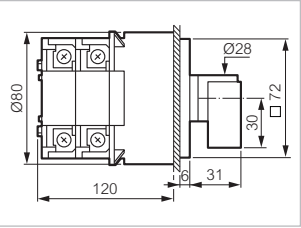
► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ51BQ7

Designation		
Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V		
8 contacts		PR63 9551 B4 E Q72MN IZ51BQ7

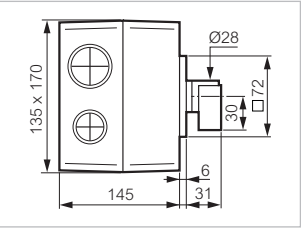


PR 63 - 63 A (AC21)	Enclosure	Cat. No.
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HZ51BDQ

Designation		
Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V		
8 contacts		PR63 9551 B4 BCF Q72MN HZ51BDQ

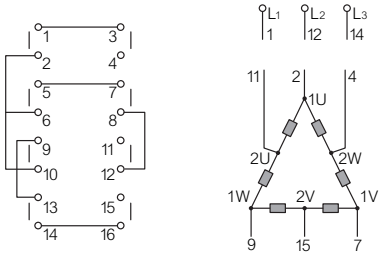


Cam switches

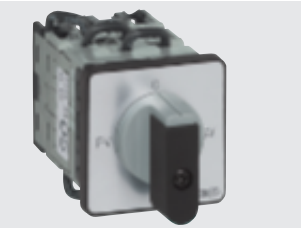
 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR

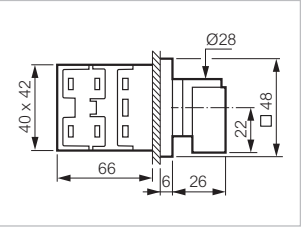
No. of contacts	LS	O	HS	No. of contacts	O	LS	HS
1 - 2	X			1 - 2		X	
3 - 4			X	3 - 4			X
5 - 6			X	5 - 6			X
7 - 8	X			7 - 8		X	
9 - 10			X	9 - 10			X
11 - 12			X	11 - 12			X
13 - 14	X			13 - 14		X	
15 - 16			X	15 - 16			X



PR 12 - 16 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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NZ52CQ1

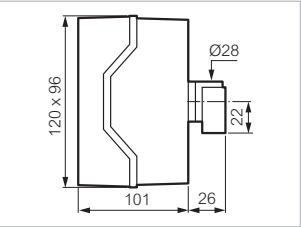


Designation			
Grey/black small handle □ 48 aluminium plate and frame P= 4 kW in 400 V			
8 contacts		PR12 9552 B4 E Q48PN	NZ52BQ1
8 contacts		PR12 9552 C4 E Q48PN	NZ52CQ1

PR 12 - 16 A (AC21)	Enclosure	Cat. No.
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NZ52CXQ



Designation			
Black small handle □ 64 aluminium plate P= 4 kW in 400 V			
8 contacts		PR12 9552 B4 BCQ3	NZ52BXQ
8 contacts		PR12 9552 C4 BCQ3	NZ52CXQ

Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SZ52BQ1

Grey/black small handle
□ 48 aluminium plate and frame
P= 7,5 kW in 400 V

Designation

8 contacts



PR17 9552 B4 E Q48PN

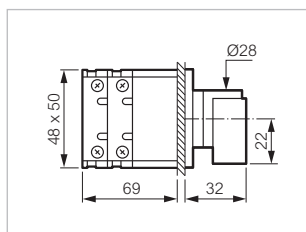
SZ52BQ1

8 contacts



PR17 9552 C4 E Q48PN

SZ52CQ1



PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SZ52BXQ

Black small handle
□ 64 aluminium plate
P= 7,5 kW in 400 V

Designation

8 contacts



PR17 9552 B4 BCQ3

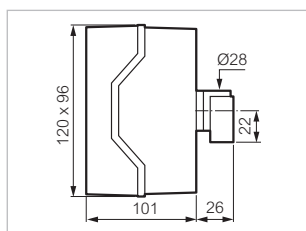
SZ52BXQ

8 contacts



PR17 9552 C4 BCQ3

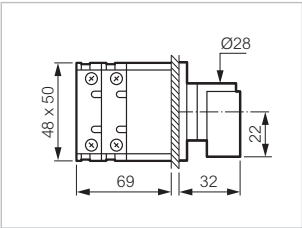
SZ52CXQ

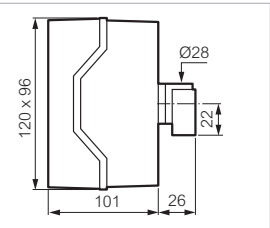


Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

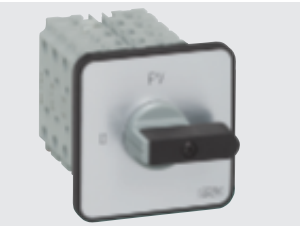
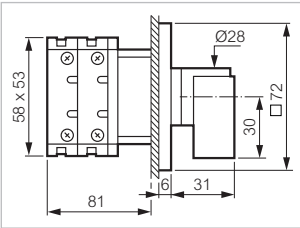
PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm		Cat. No.	
 TZ52BQ1	Designation			
	Grey/black small handle □ 48 aluminium plate and frame P= 7,5 kW in 400 V			
	8 contacts		PR21 9552 B4 E Q48PN	TZ52BQ1
	8 contacts		PR21 9552 C4 E Q48PN	TZ52CQ1
				

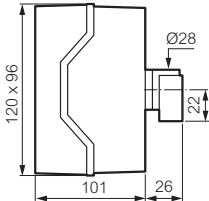
PR 21 - 25 A (AC21)	Enclosure		Cat. No.	
	Designation			
	Black small handle □ 64 aluminium plate P= 7,5 kW in 400 V			
	8 contacts		PR21 9552 B4 BCQ3	TZ52BXQ
	8 contacts		PR21 9552 C4 BCQ3	TZ52CXQ
				

Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

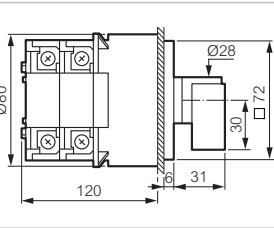
PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm		Cat. No.	
 ZZ52BQ7	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 11 kW in 400 V			
	8 contacts		PR26 9552 B4 E Q72MN	ZZ52BQ7
	8 contacts		PR26 9552 C4 E Q72MN	ZZ52CQ7

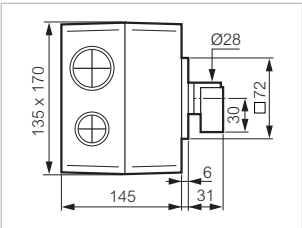
PR 26 - 32 A (AC21)	Enclosure		Cat. No.	
 ZZ52BXQ	Designation			
	Black small handle □ 64 aluminium plate P= 11 kW in 400 V			
	8 contacts		PR26 9552 B4 BCQ3	ZZ52BXQ
	8 contacts		PR26 9552 C4 BCQ3	ZZ52CXQ

Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

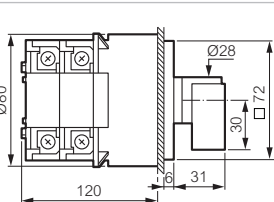
PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm		Cat. No.	
 HZ52BQ7	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V			
	8 contacts		PR40 9552 B4 E Q72MN	HZ52BQ7
	8 contacts		PR40 9552 C4 E Q72MN	HZ52CQ7
				

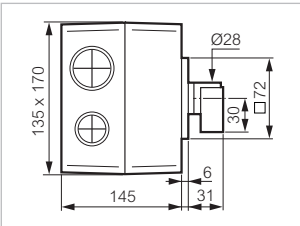
PR 40 - 50 A (AC21)	Enclosure		Cat. No.	
 HZ52BDQ	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V			
	8 contacts		PR40 9552 B4 BCF Q72MN	HZ52BDQ
	8 contacts		PR40 9552 C4 BCF Q72MN	HZ52CDQ

Cam switches

 Characteristics (p. 203)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

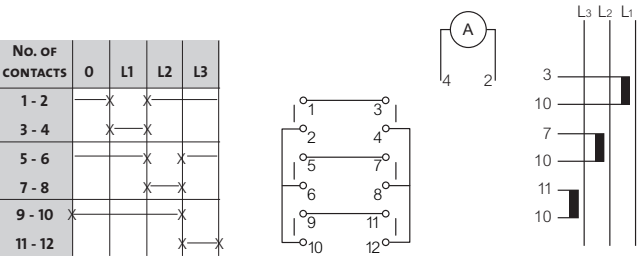
PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm			Cat. No.
 IZ52BQ7	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V			
	8 contacts		PR63 9552 B4 E Q72MN	IZ52BQ7
	8 contacts		PR63 9552 C4 E Q72MN	IZ52CQ7
				

PR 63 - 63 A (AC21)	Enclosure		Cat. No.	
 IZ52BDQ	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V			
	8 contacts		PR63 9552 B4 BCF Q72MN	HZ52BDQ
	8 contacts		PR63S 9552 C4 BCF Q72MN	HZ52CDQ

Cam switches

 Characteristics (p. 203)

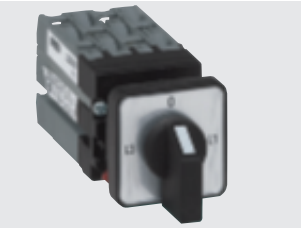
► AMMETER SWITCH, 3 CTS WITH COMMON POINT



MINI CAM SWITCH - 10 A (AC21)

ø 16 or 22 single hole front mounting

Cat. No.



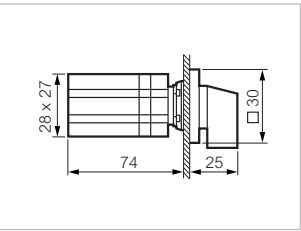
223529

- 30 aluminium plate and frame
- 1 network, 3 wires, 1 ammeter

6 contacts



223529



Cam switches



Characteristics (p. 203)

► AMMETER SWITCH, 3 CTS WITH COMMON POINT (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



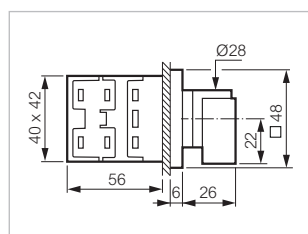
NY11AQ1

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter
6 contacts

Designation

PR12 8151 A4 E Q48PN

NY11AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



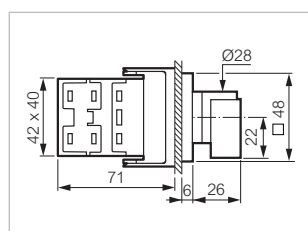
NY11AX80

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter
6 contacts

Designation

PR12 8151 A4 E N48MD50

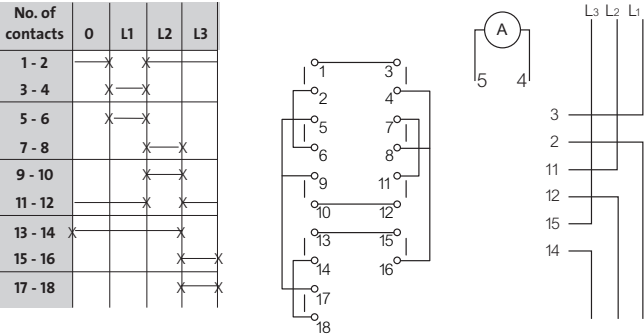
NY11AX80



Cam switches

 Characteristics (p. 203)

► AMMETER SWITCH, WITHOUT CT



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NY14AQ1

Designation

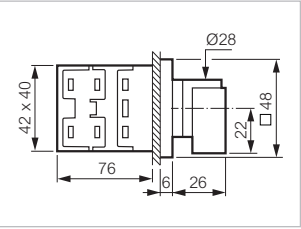
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



PR12 8164 A4 E Q48PN

NY14AQ1



PR 12 - 16 A (AC21) Ø 22 single hole front mounting Cat. No.



NY14AX80

Designation

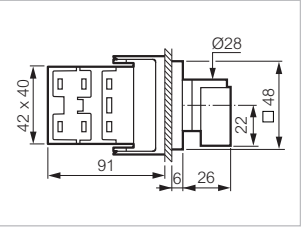
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



PR12 8164 A4 E N48MD50

NY14AX80

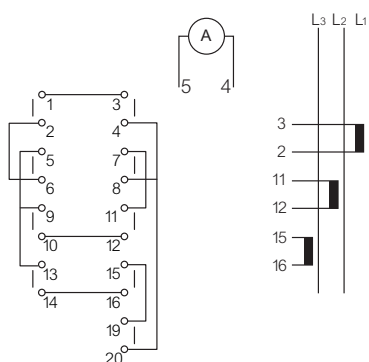


Cam switches

 Characteristics (p. 203)

► AMMETER SWITCH WITHOUT COMMON POINT

No. OF CONTACTS	0	L1	L2	L3
1 - 2	X	X		
3 - 4	X	X		
5 - 6	X	X		
7 - 8		X	X	
9 - 10		X	X	
11 - 12		X	X	
13 - 14			X	X
15 - 16	X		X	X
19 - 20			X	X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY17AQ1

Designation

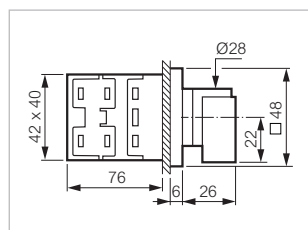
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



PR12 8157 A4 E Q48PN

NY17AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY17AX80

Designation

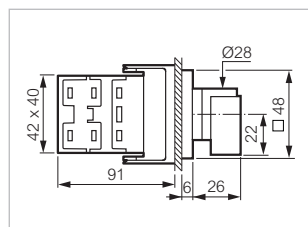
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



PR12 8157 A4 E N48MD50

NY17AX80

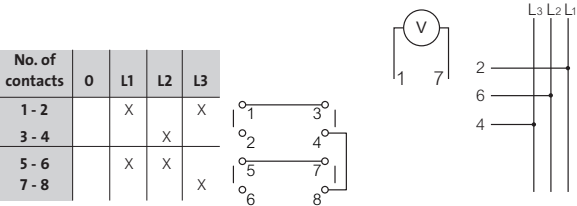


Catalogue No. in bold: normally in stock at distribution outlets

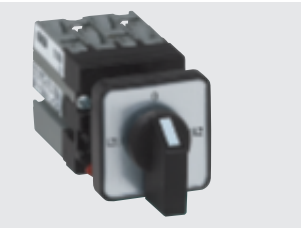
Cam switches

 Characteristics (p. 203)

► **VOLTMETER SWITCH, WITHOUT NEUTRAL**



MINI CAM SWITCH - 10 A (AC21) Ø 16 or 22 single hole front mounting Cat. No.



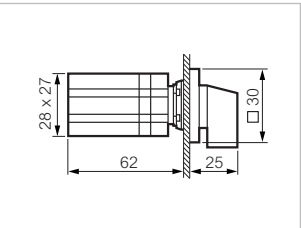
223527

- 30 aluminium plate and frame
- 1 network, 3-phase without neutral
- 1 voltmeter

4 contacts



223527



Cam switches



Characteristics (p. 203)

► VOLTMETER SWITCH, WITHOUT NEUTRAL (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY31AQ1

Designation

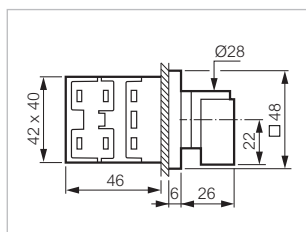
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3-phase without neutral
1 voltmeter

4 contacts



PR12 8351 A4 E Q48PN

NY31AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY31AX80

Designation

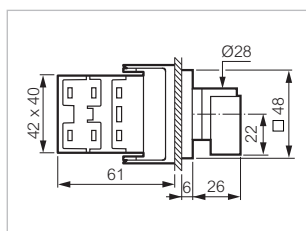
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3-phase without neutral
1 voltmeter

4 contacts



PR12 8351 A4 E N48MD50

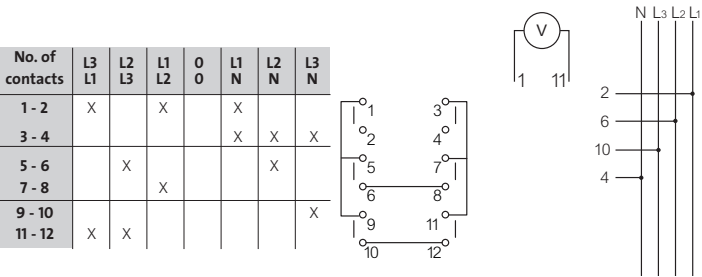
NY31AX80



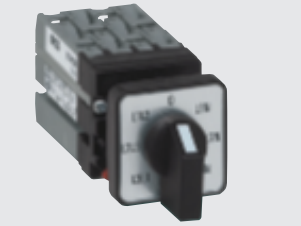
Cam switches

 Characteristics (p. 203)

► VOLTMETER SWITCH, WITH NEUTRAL



MINI CAM SWITCH - 10 A (AC21) Cat. No.



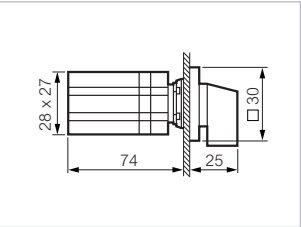
223528

□ 30 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

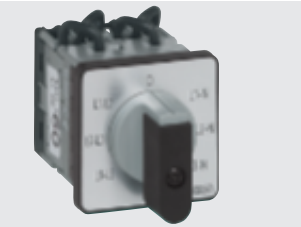
6 contacts



223528



PR 12 - 16 A (AC21) Cat. No.



NY37GQ1

2-screw panel mount – interval: 30 mm

Designation

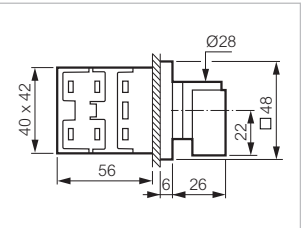
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

6 contacts



PR12 8357 C8 E Q48PN

NY37GQ1

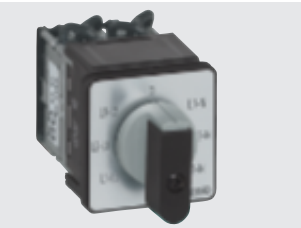


Cam switches

 Characteristics (p. 203)

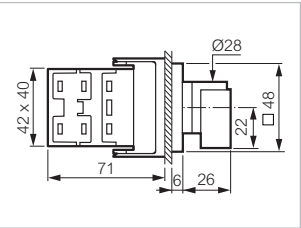
► VOLTMETER SWITCH, WITH NEUTRAL (CONTINUED)

PR 12 - 16 A (AC21)	Ø22 single hole front mounting	Cat. No.
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NY37GX80

Designation		
Grey/black small handle □ 48 aluminium plate and frame 1 network, 3-phase with neutral, 1 voltmeter		
6 contacts		PR12 8357 C8 E N48MD50 NY37GX80

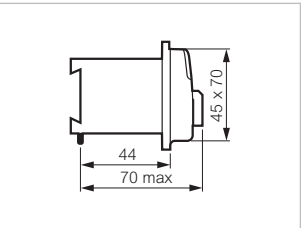


PR 12 - 16 A (AC21)	Modular in panel DIN rail mounting	Cat. No.
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NDF03

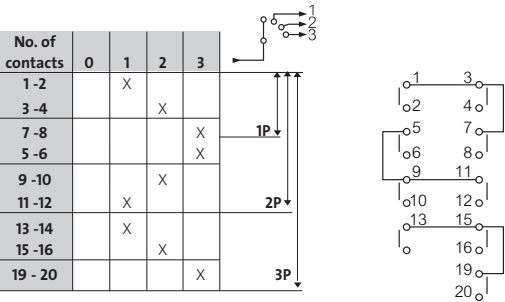
Designation		
Small grey handle 1 network, 3-phase with neutral, 1 voltmeter		
6 contacts		PR12 8357 C8 DF NDF03



Cam switches

 Characteristics (p. 203)

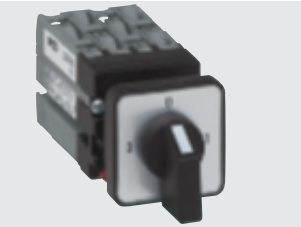
► 3-WAY SWITCHES WITH “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



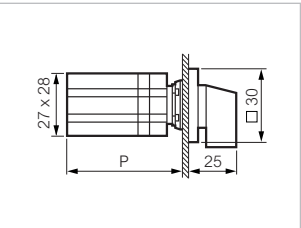
223522

□ 30 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



223521
223522
223523



Dimensions in mm

*P: 62 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 203)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND03AQ1

Grey/black small handle
□ 48 aluminium plate and frame

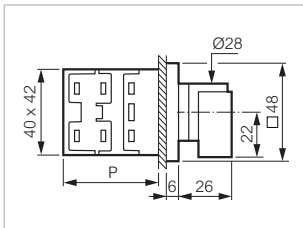
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR12 2301 A4 E Q48PN
PR12 2302 A4 E Q48PN
PR12 2303 A4 E Q48PN

ND01AQ1
ND02AQ1
ND03AQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



ND02AX80

Grey/black small handle
□ 48 aluminium plate and frame

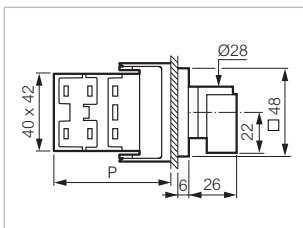
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR12 2301 A4 E N48MD50
PR12 2302 A4 E N48MD50
PR12 2303 A4 E N48MD50

ND01AX80
ND02AX80
ND03AX80



Dimensions in mm

*P: 61 (3 CONTACTS)
71 (6 CONTACTS)
91 (9 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 203)

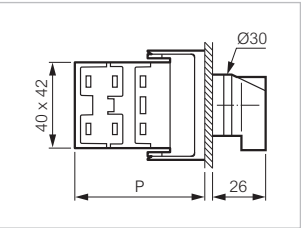
► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)	Ø 22 single hole front mounting	Cat. No.
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ND01AC113

Designation		
With selector switch style handle Matt chrome plastic bezel		
1P - 3 contacts		PR12 2301 A4 E C21RA03
2P - 6 contacts		PR12 2302 A4 E C21RA03
3P - 9 contacts		PR12 2303 A4 E C21RA03
		ND01AC113 ND02AC113 ND03AC113



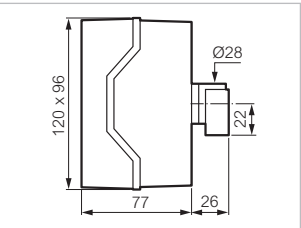
Dimensions in mm
*P: 61 (3 CONTACTS)
71 (6 CONTACTS)
91 (9 CONTACTS)

PR 12 - 16 A (AC21)	Enclosure	Cat. No.
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ND02AXQ

Designation		
Black small handle □ 64 aluminium plate		
1P - 3 contacts		PR12 2301 A4 BCQ3
2P - 6 contacts		PR12 2302 A4 BCQ3
3P - 9 contacts		PR12 2303 A4 BCQ3
		ND01AXQ ND02AXQ ND03AXQ



Dimensions in mm
*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

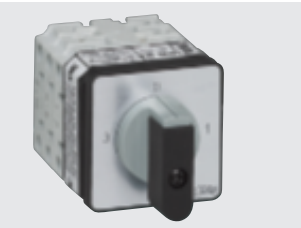
*P = Depth

Cam switches

 Characteristics (p. 203)

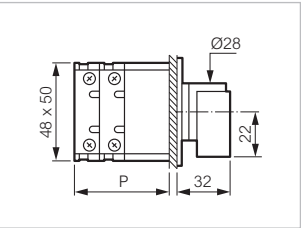
► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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SD03AQ1

Designation		
Grey/black small handle		
□ 48 aluminium plate and frame		
1P - 3 contacts		PR17 2301 A4 E Q48PN
2P - 6 contacts		PR17 2302 A4 E Q48PN
3P - 9 contacts		PR17 2303 A4 E Q48PN
		SD01AQ1
		SD02AQ1
		SD03AQ1



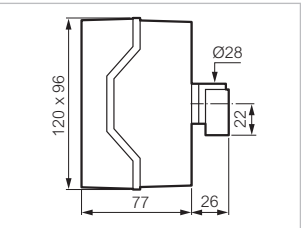
Dimensions in mm
*P: 45 (3 CONTACTS)
57 (6 CONTACTS)
81 (9 CONTACTS)

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SD02AXQ

Designation		
Black small handle		
□ 64 aluminium plate		
1P - 3 contacts		PR17 2301 A4 BCQ3
2P - 6 contacts		PR17 2302 A4 BCQ3
3P - 9 contacts		PR17 2303 A4 BCQ3
		SD01AXQ
		SD02AXQ
		SD03AXQ



Dimensions in mm
*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

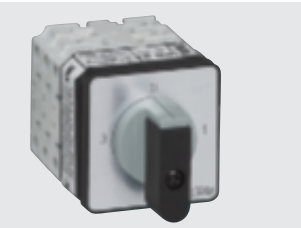
*P = Depth

Cam switches

 Characteristics (p. 203)

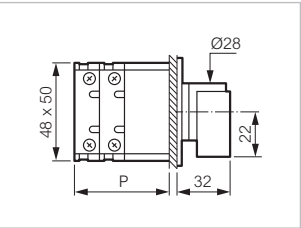
► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
---------------------	---------------------------------------	----------



TD02AQ1

Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
1P - 3 contacts		PR21 2301 A4 E Q48PN	TD01AQ1
2P - 6 contacts		PR21 2302 A4 E Q48PN	TD02AQ1
3P - 9 contacts		PR21 2303 A4 E Q48PN	TD03AQ1



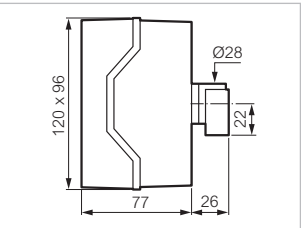
Dimensions in mm
*P: 45 (3 CONTACTS)
57 (6 CONTACTS)
81 (9 CONTACTS)

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
---------------------	-----------	----------



TD01AXQ

Designation			
Black small handle			
□ 64 aluminium plate			
1P - 3 contacts		PR21 2301 A4 BCQ3	TD01AXQ
2P - 6 contacts		PR21 2302 A4 BCQ3	TD02AXQ
3P - 9 contacts		PR21 2303 A4 BCQ3	TD03AXQ



Dimensions in mm
*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

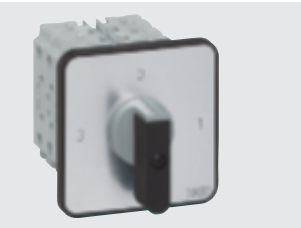
*P = Depth

Cam switches

 Characteristics (p. 203)

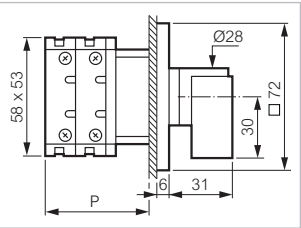
► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
---------------------	---------------------------------------	----------



ZD02AQ7

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
1P - 3 contacts		PR26 2301 A4 E Q72MN
2P - 6 contacts		PR26 2302 A4 E Q72MN
3P - 9 contacts		PR26 2303 A4 E Q72MN
		ZD01AQ7
		ZD02AQ7
		ZD03AQ7



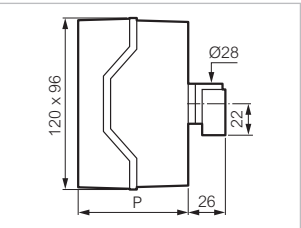
Dimensions in mm
*P: 51 (3 CONTACTS)
66 (6 CONTACTS)
96 (9 CONTACTS)

PR 26 - 32 A (AC21)	Enclosure	Cat. No.
---------------------	-----------	----------



ZD01AXQ

Designation		
Black small handle		
□ 64 aluminium plate		
1P - 3 contacts		PR26 2301 A4 BCQ3
2P - 6 contacts		PR26 2302 A4 BCQ3
		ZD01AXQ
		ZD02AXQ



Dimensions in mm
*P: 77 (3 CONTACTS)
101 (6 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

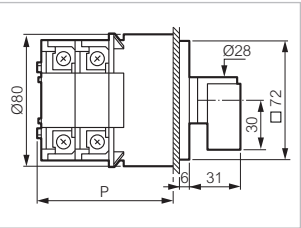
► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
---------------------	---------------------------------------	----------



HD02AQ7

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
1P - 3 contacts		PR40 2301 A4 E Q72MN
2P - 6 contacts		PR40 2302 A4 E Q72MN
3P - 9 contacts		PR40 2303 A4 E Q72MN
		HD01AQ7
		HD02AQ7
		HD03AQ7



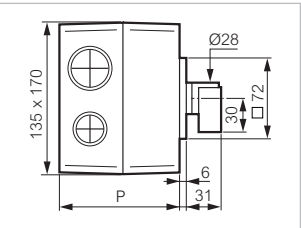
Dimensions in mm
*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

PR 40 - 50 A (AC21)	Enclosure	Cat. No.
---------------------	-----------	----------



HD01ABQ

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
1P - 3 contacts		PR40 2301 A4 BCF Q72MN
2P - 6 contacts		PR40 2302 A4 BCF Q72MN
		HD01ABQ
		HD02ACQ



Dimensions in mm
*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

*P = Depth

Cam switches

 Characteristics (p. 203)

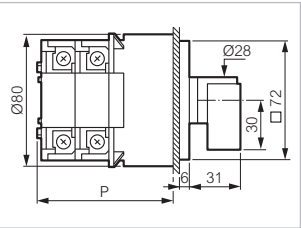
► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
---------------------	---------------------------------------	----------



ID01AQ7

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
1P - 3 contacts		PR63 2301 A4 E Q72MN
2P - 6 contacts		PR63 2302 A4 E Q72MN
3P - 9 contacts		PR63 2303 A4 E Q72MN
		ID01AQ7
		ID02AQ7
		ID03AQ7



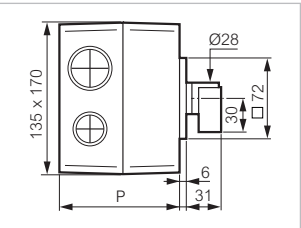
Dimensions in mm
*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

PR 63 - 63 A (AC21)	Enclosure	Cat. No.
---------------------	-----------	----------



ID01ABQ

Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
1P - 3 contacts		PR63 2301 A4 BCF Q72MN
2P - 6 contacts		PR63 2302 A4 BCF Q72MN
		ID01ABQ
		ID02ACQ



Dimensions in mm
*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

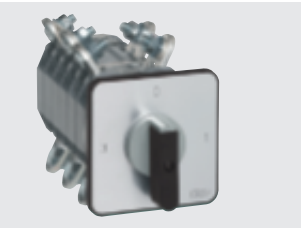
*P = Depth

Cam switches

 Characteristics (p. 203)

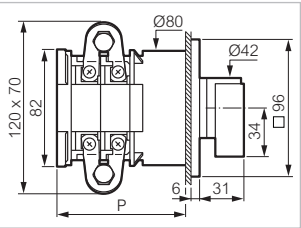
► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 125 - 160 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
-----------------------	---------------------------------------	----------



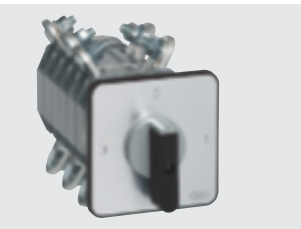
LD02AQ9

Designation		
Grey/black large handle		
□ 96 aluminium plate and frame		
1P - 3 contacts		PR125 2301 A4 E Q96GN
2P - 6 contacts		PR125 2302 A4 E Q96GN
3P - 9 contacts		PR125 2303 A4 E Q96GN
		LD01AQ9
		LD02AQ9
		LD03AQ9



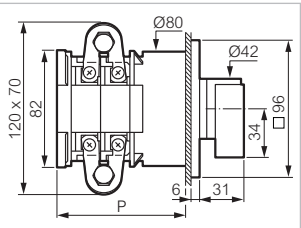
Dimensions in mm
*P: 120 (3 CONTACTS)
160 (6 CONTACTS)
240 (9 CONTACTS)

PR 160 - 200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
-----------------------	---------------------------------------	----------



MD01AQ9

Designation		
Grey/black large handle		
□ 96 aluminium plate and frame		
1P - 3 contacts		PR160 2301 A4 E Q96GN
2P - 6 contacts		PR160 2302 A4 E Q96GN
3P - 9 contacts		PR160 2303 A4 E Q96GN
		MD01AQ9
		MD02AQ9
		MD03AQ9



Dimensions in mm
*P: 120 (3 CONTACTS)
160 (6 CONTACTS)
240 (9 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 203)

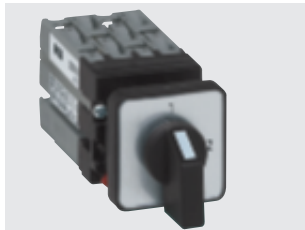
► 3-WAY CAM SWITCHES WITHOUT “OFF” POSITION

No. of contacts	1	2	3
1 - 2	X		
3 - 4		X	
7 - 8			X
5 - 6		X	X
9 - 10		X	
11 - 12	X		
13 - 14	X		
15 - 16		X	
19 - 20			X

MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



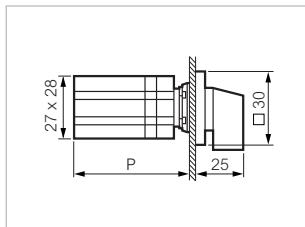
223516

□ 30 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



223515
223516
223517



Dimensions in mm

*P: 50 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND51EQ1

Designation

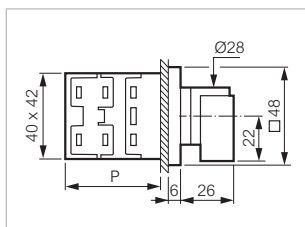
Grey/black small handle
□ 48 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



PR12 2351 A8 E Q48PN
PR12 2352 A8 E Q48PN
PR12 2353 A8 E Q48PN

ND51EQ1
ND52EQ1
ND53EQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

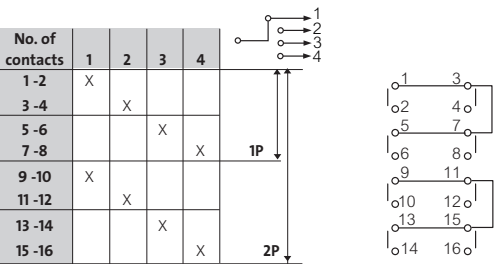
*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

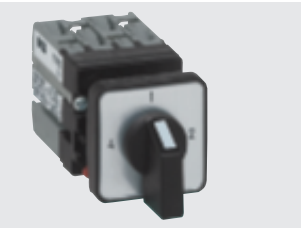
Cam switches

 Characteristics (p. 203)

▶ 4-WAY CAM SWITCHES WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21) Ø 16 or 22 single hole front mounting Cat. No.



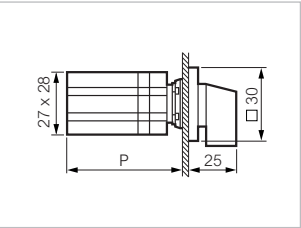
223525

☐ 30 aluminium plate and frame

1P - 4 contacts
2P - 8 contacts



223525
223526



Dimensions in mm
*P: 62 (4 CONTACTS)
86 (8 CONTACTS)

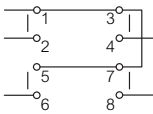
*P = Depth

Cam switches

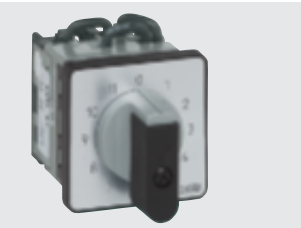
 Characteristics (p. 203)

► CODING SWITCH WITH “OFF”

No. of contacts	Positions											
	0	1	2	3	4	5	6	7	8	9	10	11
1 - 2		X		X		X		X		X		X
3 - 4			X	X			X	X			X	X
5 - 6					X			X				
7 - 8									X			X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NR51UQ1

Designation

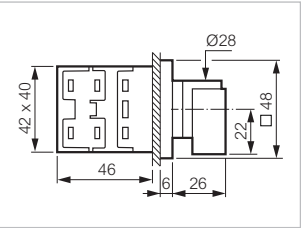
Grey/black small handle
□ 48 aluminium plate and frame

4 contacts



PR12 6501 A1 E Q48PN

NR51UQ1

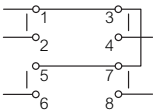


Cam switches

 Characteristics (p. 203)

► CODING SWITCH WITHOUT “OFF”

No. of contacts	Positions											
	1	2	3	4	5	6	7	8	9	10	11	12
1 - 2	X		X		X		X		X		X	
3 - 4		X	X			X	X			X	X	
5 - 6				X			X					X
7 - 8								X				X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR52UQ1

Designation

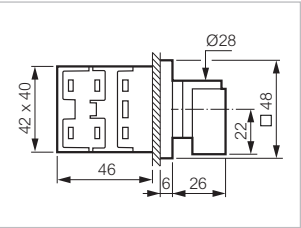
Grey/black small handle
□ 48 aluminium plate and frame

4 contacts



PR12 6502 A1 E Q48PN

NR52UQ1

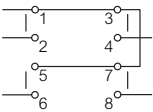


Cam switches

 Characteristics (p. 203)

► CODING SWITCH (COMPLEMENTARY BCD CODE, 0 TO 9)

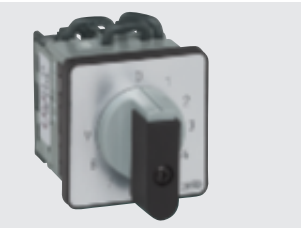
No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR53UQ1

Designation

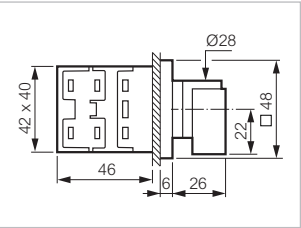
Grey/black small handle
□ 48 aluminium plate and frame
With complete rotation possible

4 contacts



PR12 6503 A1 E Q48PN

NR53UQ1

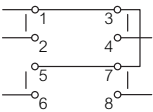


Cam switches

 Characteristics (p. 203)

► COMPLEMENTARY BCD CODE, 0 TO 9

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2	X		X		X		X		X	
3 - 4	X	X			X	X			X	X
5 - 6	X			X					X	X
7 - 8	X							X		



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR54UQ1

Designation

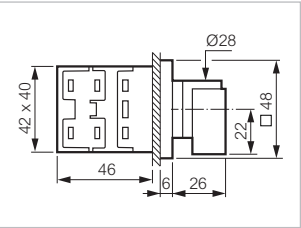
- Grey/black small handle
- 48 aluminium plate and frame
- With complete rotation possible

4 contacts



PR12 6504 A1 E Q48PN

NR54UQ1

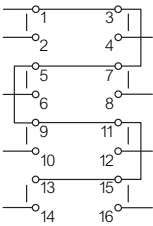


Cam switches

 Characteristics (p. 203)

► BCD CODE, 0 TO 9, + COMPLEMENTARY BCD CODE

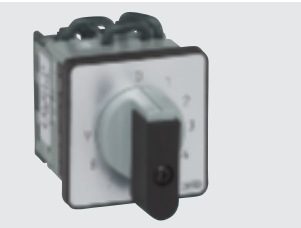
No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X
9 - 10	X		X		X		X		X	
11 - 12	X	X			X	X			X	X
13 - 14	X			X					X	X
15 - 16	X						X			



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR55UQ1

Designation

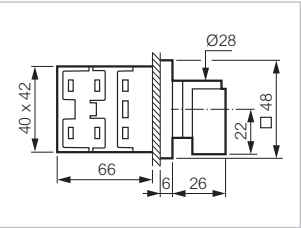
Grey/black small handle
□ 48 aluminium plate and frame
With complete rotation possible

8 contacts



PR12 6505 A1 E Q48PN

NR55UQ1



Cam switches



Characteristics (p. 203)

► ACCESSORIES

FIXING TOOL

Cat. No.



223520

For mini cam switches

223520

FIXING TOOL

Cat. No.



LWA0234

Fixing tool for PR 12 cam switches
ø 22 single hole front mounting

LWA0234

Technical characteristics

► MINI CAM SWITCHES

Characteristics	Data
► Thermal current I _{th}	10 A
► Rated operating current I _e	
- in AC 21	10 A
- in AC 15	2.5 A
► Motor performance in AC-3	
- 3 x 230 V	1.8 kW
- 3 x 400 V	2.2 kW
► Motor performance in AC-23	
- 1 x 230 V	0.75 kW
- 1 x 400 V	1.1 kW
- 3 x 230 V	1.8 kW
- 3 x 400 V	3 kW
► Rated insulation voltage U _i (V)	500 V
► Rated operating current in DC-1 L/R < 1ms	
- 24 V DC	10 A
- 40 V DC	6 A
- 60 V DC	2.5 A
- 110 V DC	0.7 A
- 220 V DC	0.3 A
► Rated conditional short-circuit current	3 kA
► Max. fuse rating	10 A
► Degree of protection	IP 65 IP 2x at the rear of the panel
► Wire size (flexible and rigid)	2 x 1.5 mm ² max. 1 x 0.5 mm ² min.
► Operating temperature	- 20°C to + 50°C
► Standards	IEC 60947-1 IEC 60947-3 CSA 22.2 UL 508

► CAM SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► For thermal current I _{th} I _c (A)	20	25	32	40	63	63	200	250
► Rated operating current for AC-21 A I _e (A) (IEC 60 947-3) Switching of resistive loads including moderate overloads	16	20	25	32	50	63	160	200
► Rated operating current for AC-15 A I _e (A) at 230V AC (IEC 60 947-3) Control of electromagnetic loads	6	8	10	12	-	-	-	-

Technical characteristics

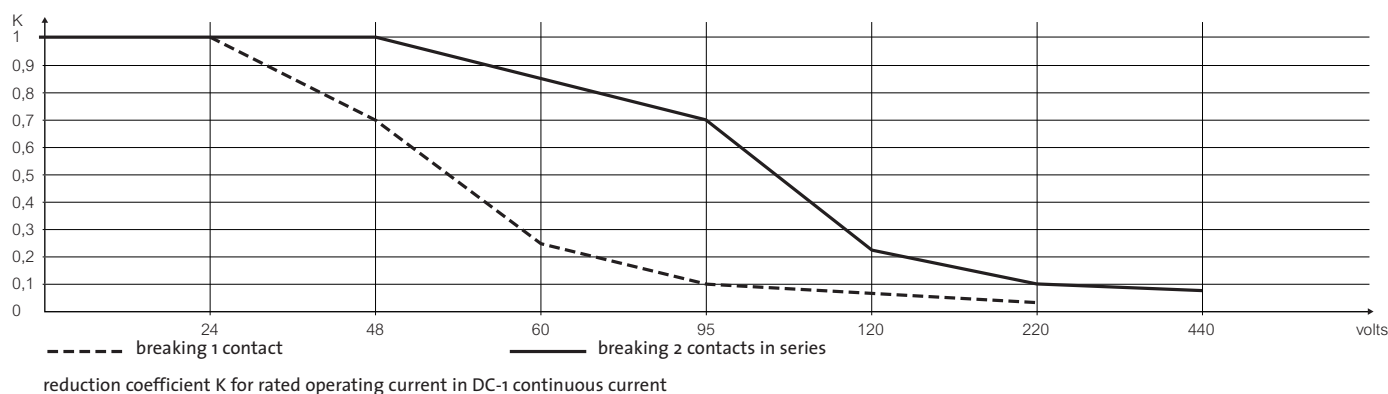
► SELECTOR SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-
► Performance in AC 3 (IEC 60 947-3) Control of squirrel-cage motors starting and switching off motors while running								
- In kW								
- 3 x 230 V	3	4	4	5.5	11	15	-	-
- 3 x 400 V	4	7.5	7.5	11	18.5	22	-	-
- 3 x 500 V	5.5	7.5	7.5	11	18.5	22	-	-
- 3 x 690 V	3	7.5	7.5	11	18.5	22	-	-
- In HP (for reference)								
- 3 x 230 V	4	5.5	5.5	7.5	15	20	-	-
- 3 x 400 V	5.5	10	10	15	25	30	-	-
- 3 x 500 V	7.5	10	10	15	25	30	-	-
- 3 x 690 V	4	10	10	15	25	30	-	-
► Rated insulation voltage U_i (V)								
- Max. rated voltage $U_e(v)$ IEC	690	690	690	690	690	690	690	690
- CSA (Canada)	600	600	600	600	600	600	600	600
- UL (USA)	600	600	600	600	600	600	600	600
► Rated short time withstand current I_{cw} (A) for 1 sec								
	300	400	420	800	1200	1500	2400	3000
► Maximum wire size (mm²)								
- rigid	4	6/4 ⁽¹⁾	6/4 ⁽¹⁾	6	16	16	ø 8 screw for eyelet	
- flexible	2.5	4	4	6	16	16	ø 8 screw for eyelet	

(1): These values correspond to terminals with jumpers

► Mechanical durability	1,250,000 operations, maximum rate 150 operations per hour							
► Operating temperature limits	- 20°C to + 70°C (beyond these limits consult us)							
► Rated operating current in DC-1 low inductive loads (< 1 ms)								
Rated operating current I_e (A) 24 V DC	16	20	25	32	50	63	-	-

I_e (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph



Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 123)
Mini cam switches are only available in standard versions.

► I - CHOICE OF SWITCH SIZE

TECHNICAL CHARACTERISTICS

The choice of switch size depends on the type of load to be switched

Cam switches are devices designed mainly for use with AC current

When using with DC current, you must use a reduction coefficient (see previous page)

PRICE LIST CODE

The price list code allows you (if necessary) to determine the price of the chosen switch by referring to the current price list

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

EXAMPLE

1 You are looking for a switch to control motors (3x230 V) with a power rating of 18.5 kW, what you need is a **PR 63**.

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-

2 For a PR 63 the price list code is: I

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 123)
Mini cam switches are only available in standard versions.

► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS

The electrical circuit diagram for separate switches can be:

- A standard diagram (see p. 207 to 238).

Examples:



- A special diagram to your own requirement (complete the form on p. 277)



EXAMPLE

- 1** The reference of the diagram for a 1-2 contact switch (p. 208) is: **1101**, and its **price list code** is: **A01Z**

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions 0 1 - - - - -	No. of poles	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X	1	1		1101	A01Z
3 - 4	X	2	2		1102	A02Z
5 - 6	X	3	3		1103	A03Z
7 - 8	X	4	4		1104	A04Z
9 - 10	X	5	5		1105	A05Z
11 - 12	X	6	6		1106	A06Z

- 2** For a switch, the reference of the 90° switching angle with spring return is: **AR10**, and the **price list code** is: **Y640**

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M4	AR10*	VR11*

Spring return extra charge

* Y652 (PR12)

Y639 (PR17 → 26)

Y640 (PR40 → 63)

Number of spring return contacts

≤ 4 (PR12 → 25)

≤ 2 (PR40 → 63)

- 3** The full catalogue number for the function is **1101 - AR10**, and its **price list code** is **(I)A01Z - Y640**

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 123)
Mini cam switches are only available in standard versions.

► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS	Diagram	Page
► Switches From 1 to 24 poles, each pole being a path for the current, the circuit being open at starting position 0, and closed at position 1		208
► 2 way change-over switches without off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2 The two paths can be joined by a common point (link)		209
► 2 way change-over switches with off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2. Both paths can be open at position 0 and joined by a common point (link)		210
► 3 to 8-way cam switches Each pole having respectively 3 to 8 paths for the current, the number of poles multiplied by the number of ways must be 24 or less The starting position is either 0 (diagram with OFF) or 1 (diagram without OFF) The current paths of the same pole are connected together by links		211
► Grouping switches From 2 to 4 ways with or without starting position at 0, each pole having respectively 2 to 4 current paths which close consecutively and remain closed on the following positions, thus grouping 2 to 4 elements The current paths of the same pole are connected together by links		223
► Instrument switches For ammeters wired without a CT or with several CTs connected on the corresponding circuits The CTs can be mounted in series, with a common point or independently, they are always short-circuited when not feeding the ammeters For voltmeters wired into 3-phase networks with or without neutral	 	226 226 228
► Motor control switches For 3-phase asynchronous motors with Y - ▲ starting, with several speeds, with or without reversing		229
► Switches for coupling 2 or 3 resistors		235
► Coding switches Code BCD and additional BCD		237

DIAGRAM (REFERENCE AND PRICE LIST CODE)SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

208

Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4	X	1	2		2251	A02Z
5 - 6 7 - 8	X	2	4		2252	A04Z
9 - 10 11 - 12	X	3	6		2253	A06Z
13 - 14 15 - 16	X	4	8		2254	A08Z
17 - 18 19 - 20	X	5	10		2255	A10Z
21 - 22 23 - 24	X	6	12		2256	A12Z
25 - 26 27 - 28	X	7	14		2257	A14Z
29 - 30 31 - 32	X	8	16		2258	A16Z
33 - 34 35 - 36	X	9	18		2259	A18Z
37 - 38 39 - 40	X	10	20		2260	A20Z
41 - 42 43 - 44	X	11	22		2261	A22Z
45 - 46 47 - 48	X	12	24		2262	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	D4	AR10*	VR11*
Cat. No. B1	B8	B6	B4			
Cat. No.	V8		M4			

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤4 (PR12 → 26)
 ≤2 (PR40 → 63)

Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions											No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	0	1	2	-	-	-	-	-	-	-	-					
1 - 2 3 - 4	X											1	2		2201	A02Z
5 - 6 7 - 8	X											2	4		2202	A04Z
9 - 10 11 - 12	X											3	6		2203	A06Z
13 - 14 15 - 16	X											4	8		2204	A08Z
17 - 18 19 - 20	X											5	10		2205	A10Z
21 - 22 23 - 24	X											6	12		2206	A12Z
25 - 26 27 - 28	X											7	14		2207	A14Z
29 - 30 31 - 32	X											8	16		2208	A16Z
33 - 34 35 - 36	X											9	18		2209	A18Z
37 - 38 39 - 40	X											10	20		2210	A20Z
41 - 42 43 - 44	X											11	22		2211	A22Z
45 - 46 47 - 48	X											12	24		2212	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	Misc	Spring return	Spring return	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	J4	AR23*	AR25*	AR32*	BR19*	CR12*
Cat. No. B1	B8	B6	B4	M6	CR13*	CR14*	CR19*		
Cat. No. C1	C8	C6	C4	V8	CR20*	VR12*	VR13*		

Spring return extra charge

* Y652 (PR12)

Y639 (PR17 → 26)

Y640 (PR40 → 63)

Number of spring

return contacts

≤ 4 (PR12 → 26)

≤ 2 (PR40 → 63)

Separate cam switches

► 3-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	-	-	-	-	-	-	-					
1 - 2 3 - 4 7 - 8	X										1	3		2351	A03Z
5 - 6 9 - 10 11 - 12		X									2	6		2352	A06Z
13 - 14 15 - 16 19 - 20	X										3	9		2353	A09Z
17 - 18 21 - 22 23 - 24		X									4	12		2354	A12Z
25 - 26 27 - 28 31 - 32	X										5	15		2355	A15Z
29 - 30 33 - 34 35 - 36		X									6	18		2356	A18Z
37 - 38 39 - 40 43 - 44	X										7	21		2357	A21Z
41 - 42 45 - 46 47 - 48		X									8	24		2358	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	60°	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M6	AR23*	AR25*	
Cat. No. B1	B8	B6	B4		BR19*		
Cat. No. C1	C8	C6			CR12*	CR13*	CR14*

Spring return extra charge

* Y652 (PR12)

Y639 (PR17 → 26)

Y640 (PR40 → 63)

Number of spring

return contacts

≤ 4 (PR12 → 26)

≥ 2 (PR40 → 63)

Separate cam switches

► 3-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	0	1	2	3	-	-	-	-	-	-					
1-2 3-4 7-8		X									1	3		2301	A03Z
5-6 9-10 11-12			X								2	6		2302	A06Z
13-14 15-16 19-20		X									3	9		2303	A09Z
17-18 21-22 23-24			X								4	12		2304	A12Z
25-26 27-28 31-32		X									5	15		2305	A15Z
29-30 33-34 35-36			X								6	18		2306	A18Z
37-38 39-40 43-44		X									7	21		2307	A21Z
41-42 45-46 47-48			X								8	24		2308	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	V8	BR15*	VR16*
Cat. No. B1	B8	B6	B4			
Cat. No. M8	J6					

Spring return extra charge

* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring return contacts

≤4 (PR12 → 26)
≥2 (PR40 → 63)

Separate cam switches

► 4-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	-	-	-	-	-	-					
1 -2 3 -4 5 -6 7 -8	X										1	4		2451	Ao4Z
9 -10 11 -12 13 -14 15 -16	X										2	8		2452	Ao8Z
17 -18 19 -20 21 -22 23 -24	X										3	12		2453	A12Z
25 -26 27 -28 29 -30 31 -32	X										4	16		2454	A16Z
33 -34 35 -36 37 -38 39 -40	X										5	20		2455	A20Z
41 -42 43 -44 45 -46 47 -48	X										6	24		2456	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	V8	AR30*	
Cat. No. B1	B8	B6	B4		BR15*	BR41*
Cat. No. V1	M8				VR16*	VR28*

Spring return extra charge

* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring

return contacts
≤ 4 (PR12 → 26)
≤ 2 (PR40 → 63)

Separate cam switches

► 4-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	0	1	2	3	4	-	-	-	-	-					
1 - 2 3 - 4 5 - 6 7 - 8	X										1	4		2401	A04Z
9 - 10 11 - 12 13 - 14 15 - 16	X										2	8		2402	A08Z
17 - 18 19 - 20 21 - 22 23 - 24	X										3	12		2403	A12Z
25 - 26 27 - 28 29 - 30 31 - 32	X										4	16		2404	A16Z
33 - 34 35 - 36 37 - 38 39 - 40	X										5	20		2405	A20Z
41 - 42 43 - 44 45 - 46 47 - 48	X										6	24		2406	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	45°	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	J8	AR38*		
Cat. No. B1	B8	B6				
Cat. No. C1	C8	C6	CR27*	CR34*	CR40*	

Spring return extra charge

* Y652 (PR12)

Y639 (PR17 → 26)

Y640 (PR40 → 63)

Number of spring

return contacts

≤ 4 (PR12 → 26)

≥ 2 (PR40 → 63)

Separate cam switches

► 5-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	5	-	-	-	-	-					
1 -2 3 -4 5 -6 7 -8 9 -10	X										1	5		2551	A05Z
11 -12 13 -14 15 -16 17 -18 19 -20	X										2	10		2552	A10Z
21 -22 23 -24 25 -26 27 -28 29 -30	X										3	15		2553	A15Z
31 -32 33 -34 35 -36 37 -38 39 -40	X										4	20		2554	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	Spring return
Cat. No. A1	A8	A6	
Cat. No. B1	B8	B6	BR27*
Cat. No. V8			

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤4 (PR12 → 26)
 ≤2 (PR40 → 63)

Separate cam switches

► 5-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	0	1	2	3	4	5	-	-	-	-					
1 -2 3 -4 5 -6 7 -8 9 -10	X										1	5		2501	A05Z
11 -12 13 -14 15 -16 17 -18 19 -20	X										2	10		2502	A10Z
21 -22 23 -24 25 -26 27 -28 29 -30	X										3	15		2503	A15Z
31 -32 33 -34 35 -36 37 -38 39 -40	X										4	20		2504	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°		45°		60°	
Cat. No.	A1	A8		A6	
Cat. No.	B1	B8		B6	
Cat. No.	M1	V6			

Separate cam switches

► 6-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	5	6	-	-	-	-					
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12	X										1	6		2651	A06Z
13 - 14 15 - 16 17 - 18 19 - 20 21 - 22 23 - 24	X										2	12		2652	A12Z
25 - 26 27 - 28 29 - 30 31 - 32 33 - 34 35 - 36	X										3	18		2653	A18Z
37 - 38 39 - 40 41 - 42 43 - 44 45 - 46 47 - 48	X										4	24		2654	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°		45°		60°	
Cat. No.	A1	A8		A6	
Cat. No.	B1	B8		B6	
Cat. No.	M1				

Separate cam switches

► 6-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	0	1	2	3	4	5	6	-	-	-					
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12		X									1	6		2601	A06Z
13 -14 15 -16 17 -18 19 -20 21 -22 23 -24		X									2	12		2602	A12Z
25 -26 27 -28 29 -30 31 -32 33 -34 35 -36		X									3	18		2603	A18Z
37 -38 39 -40 41 -42 43 -44 45 -46 47 -48		X									4	24		2604	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°		45°	
Cat. No.	A1	Cat. No.	A8
Cat. No.	B1	Cat. No.	B8
Cat. No.	J1	Cat. No.	C8

Separate cam switches

► 7-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
	1	2	3	4	5	6	7	-	-	-					
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16	X										1	7		2751	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28							X				2	14		2752	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44	X										3	21		2753	A21Z
41 - 42 45 - 46 47 - 48															

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°		45°	
Cat. No. A1		Cat. No. A8	
Cat. No. B1		Cat. No. B8	
Cat. No.		Cat. No. C8	

Separate cam switches

► 7-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals +* links	Diagram* reference	Diagram price list code
	0	1	2	3	4	5	6	7	-	-					
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16		X									1	7		2701	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28								X			2	14		2702	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44		X									3	21		2703	A21Z
41 - 42 45 - 46 47 - 48															

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°		45°	
Cat. No.	A1	Cat. No.	A8
Cat. No.	B1	Cat. No.	B8

Separate cam switches

► 8-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 6 7 8 - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16	X X X X X X X X	1	8		2851	A08Z
17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	X X X X X X X X	2	16		2852	A16Z
33 - 34 35 - 36 37 - 38 39 - 40 41 - 42 43 - 44 45 - 46 47 - 48	X X X X X X X X	3	24		2853	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°
Cat. No. A1	A8
Cat. No. B1	B8

For more than 8 ways, please contact us.

Separate cam switches

► 8-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 5 6 7 8 - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12 13 -14 15 -16	X X X X X X X X	1	8		2801	A08Z
17 -18 19 -20 21 -22 23 -24 25 -26 27 -28 29 -30 31 -32	X X X X X X X X	2	16		2802	A16Z
33 -34 35 -36 37 -38 39 -40 41 -42 43 -44 45 -46 47 -48	X X X X X X X X	3	24		2803	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°



Cat. No. A1



Cat. No. B1



Cat. No. C1

For more than 8 ways, please contact us.

Separate cam switches

► GROUPING SWITCHES FOR 2 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	-	-	-	-	-	-	-				with off	without off	
1 - 2 3 - 4	X	X									1	2		5201	5251	A02Z
5 - 6 7 - 8	X	X									2	4		5202	5252	A04Z
9 - 10 11 - 12	X	X									3	6		5203	5253	A06Z
13 - 14 15 - 16	X	X									4	8		5204	5254	A08Z
17 - 18 19 - 20	X	X									5	10		5205	5255	A10Z
21 - 22 23 - 24	X	X									6	12		5206	5256	A12Z
25 - 26 27 - 28	X	X									7	14		5207	5257	A14Z
29 - 30 31 - 32	X	X									8	16		5208	5258	A16Z
33 - 34 35 - 36	X	X									9	18		5209	5259	A18Z
37 - 38 39 - 40	X	X									10	20		5210	5260	A20Z
41 - 42 43 - 44	X	X									11	22		5211	5261	A22Z
45 - 46 47 - 48	X	X									12	24		5212	5262	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

30°				45°				60°				90°			
Cat. No. A1				A8				A6				A4			
Cat. No. B1				B8				B6				B4			
Cat. No. V8				M6											

Separate cam switches

► GROUPING SWITCHES FOR 3 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	3	-	-	-	-	-	-				with off	without off	
1 - 2 3 - 4 7 - 8	X	X	X								1	3		5301	5351	A03Z
5 - 6 9 - 10 11 - 12		X	X								2	6		5302	5352	A06Z
13 - 14 15 - 16 17 - 18	X	X	X								3	9		5303	5353	A09Z
19 - 20 21 - 22 23 - 24		X	X								4	12		5304	5354	A12Z
25 - 26 27 - 28 29 - 30	X	X	X								5	15		5305	5355	A15Z
31 - 32 33 - 34 35 - 36		X	X								6	18		5306	5356	A18Z
37 - 38 39 - 40 41 - 42	X	X	X								7	21		5307	5357	A21Z
43 - 44 45 - 46 47 - 48		X	X								8	24		5308	5358	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

30°				45°				60°				90°			
Cat. No. A1				Cat. No. A8				Cat. No. A6				Cat. No. A4			
Cat. No. B1				Cat. No. B8				Cat. No. B6				Cat. No. B4			
Cat. No. V8 (45°)				Cat. No. M8				Cat. No. V8				Cat. No. M6			

Separate cam switches

► GROUPING SWITCHES FOR 4 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions								No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	3	4	-	-	-				with off	without off	
1 - 2 3 - 4 5 - 6 7 - 8	X			X					1	4		5401	5451	A04Z
9 - 10 11 - 12 13 - 14 15 - 16	X			X					2	8		5402	5452	A08Z
17 - 18 19 - 20 21 - 22 23 - 24	X			X					3	12		5403	5453	A12Z
25 - 26 27 - 28 29 - 30 31 - 32	X			X					4	16		5404	5454	A16Z
33 - 34 35 - 36 37 - 38 39 - 40	X			X					5	20		5405	5455	A20Z
41 - 42 43 - 44 45 - 46 47 - 48	X			X					6	24		5406	5456	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

30°			45°			60°			30°			45°			60°			90°		
Cat. No. A1			Cat. No. A8			Cat. No. A6			Cat. No. A1			Cat. No. A8			Cat. No. A6			Cat. No. A4		
Cat. No. B1			Cat. No. B8			Cat. No. B6			Cat. No. B1			Cat. No. B8			Cat. No. B6			Cat. No. B4		

For more than 4 elements, please contact us.

Separate cam switches

► INSTRUMENT SWITCHES: AMMETER

MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITH COMMON POINT

SWITCHING ANGLE

Contact Nos.	Positions 0 1 2 3 - - - -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12	X X X X X X X X X X X X	6		8151	Ao6Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITHOUT COMMON POINT

SWITCHING ANGLE

Contact Nos.	Positions 0 1 2 3 - - - -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 19-20	X X X X X X X X X X X X X X X X X X	9		8157	Ao9Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

Separate cam switches

► INSTRUMENT SWITCHES: AMMETER (CONTINUED)

MEASUREMENT ON 3 CIRCUITS L₁-L₂-L₃ WITH 1 AMMETER, DIRECT READING WITHOUT CT

SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-				
1 - 2	X	X					9		8164	A09Z
3 - 4	X	X								
5 - 6	X	X								
7 - 8		X	X							
9 - 10		X	X							
11 - 12		X	X							
13 - 14			X	X						
15 - 16			X	X						
17 - 18			X	X						

90°

Cat. No. A4

Cat. No. B4

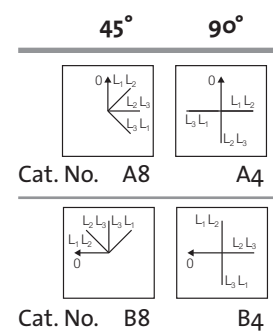
Separate cam switches

► INSTRUMENT SWITCHES: VOLTMETER

MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES

SWITCHING ANGLE

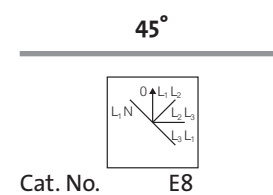
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-				
1-2		X		X			4		8351	Ao4Z
3-4			X							
5-6		X		X						
7-8				X						



MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES + BETWEEN 1 PHASE AND NEUTRAL

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-	L _N				
1-2		X		X			X	5		8356	Ao5Z
3-4			X								
5-6		X		X							
7-8			X								
9-10		X					X				



MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES AND BETWEEN PHASES AND NEUTRAL

45°

A square with a circle inscribed inside it. The circle is tangent to all four sides of the square. The top-left corner of the square is labeled '0'. The top-right corner is labeled 'L₁ N'. The bottom-right corner is labeled 'L₂ N'. The bottom-left corner is labeled 'L₃ L₁'. The center of the circle is labeled 'O'.

Cat. No. **C8**

Y Δ STARTER, ONE WAY, FOR SINGLE SPEED MOTOR	SWITCHING ANGLE
--	-----------------

45°	90°
Cat. No. A8	A4
Cat. No. AR32*	B4
$60^\circ + SRO$	
Cat. No. M6 + SRO**	

229

Separate cam switches

► 3-PHASE, 1-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

SWITCHING ANGLE

Contact Nos.	FWD	Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X	X		10		9153	A10Z
3-4			X				
5-6			X				
7-8	X	X					
9-10	X	X					
11-12	X	X					
13-14	X	X					
15-16	X	X					
17-18	X	X					
19-20	X	X					

45°



Cat. No. C8

3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		5		9151	A05Z
3-4	X				
5-6	X				
7-8					
9-10	X				

45°

90°



Cat. No. C8



C4

Separate cam switches

► 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES

2 SPEEDS, 1 WAY WITHOUT OFF - 3 PHASE DALHANDER MOTOR (not suitable as starter)

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16	Δ Y Y - - - - -	8		9354	Ao8Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4
Cat. No. D4	M4

2 SPEEDS, 1 WAY WITH OFF - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16	0 Δ Y Y - - - - -	8		9552	Ao8Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4
Cat. No. C8	C4

* PV = LS
GV = HS

Separate cam switches

► 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

2 SPEEDS, FORWARD/REVERSE - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	FWD Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X-X		12		9154	A12Z
3-4		X-X				
5-6		X-X				
7-8	X-X					
9-10	X	X				
11-12	X	X				
13-14	X					
15-16	X					
17-18	X	X				
19-20	X	X				
21-22	X	X				
23-24	X	X				

45°



Cat. No. C8

STARTER, 2 SPEEDS, 1 WAY - 2 COILS ΔA, ΔB OPEN

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X	8		9553	Ao8Z
3-4	X				
5-6	X				
7-8	X				
9-10	X				
11-12	X				
13-14	X				
15-16	X				

45°

90°



Cat. No. A8



Cat. No. A4



Cat. No. B8



Cat. No. B4



Cat. No. C8



Cat. No. C4

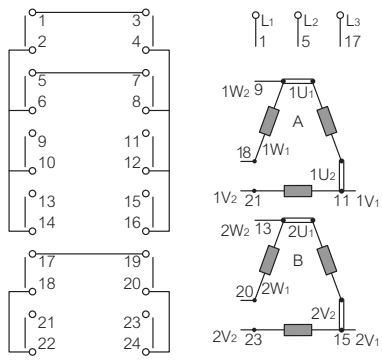
* PV = LS
GV = HS

Separate cam switches

► 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS ΔA , ΔB OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions O LS HS - -	REV HS LS	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24	X-X X-X X X X X X X	X-X X-X X X	12		9156	A12Z

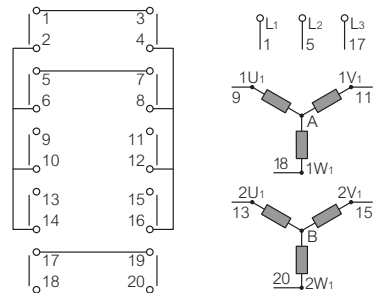
45°



Cat. No. C8

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS $Y A$, $Y B$ OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions O LS HS - -	REV HS LS	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20	X-X X-X X X X X X	X-X X-X X X	10		9163	A10Z

45°



Cat. No. C8

For function
1 way,
see page 210,
ref. diagram 2203,
diagram price list code
Ao6Z

* PV = LS
GV = HS

Separate cam switches

► MOTOR CONTROL SWITCHES - D.C. CURRENT OR SINGLE PHASE

POLARITY OR PHASE CHANGE-OVER WITH OFF POSITION (D.C. current)

SWITCHING ANGLE

Contact Nos.	0	1	2	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X						4		9051	Ao4Z
3-4			X								
5-6			X								
7-8		X									

45°

90°



Cat. No. A8

A4



Cat. No. B8

B4



Cat. No. C8

C4

FORWARD/REVERSE SWITCH WITH OFF POSITION FOR 1-SPEED SINGLE PHASE MOTOR WITH PERMANENT CONDENSER (4 WIRES)

SWITCHING ANGLE

Contact Nos.	0	FWD	-	-	-	-	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X					X	6		9057C8	Ao6Z
3-4		X					X				
5-6		X					X				
7-8							X				
9-10							X				
11-12		X									

45°



Cat. No. C8

Separate cam switches

► SWITCHES FOR COUPLING 2 RESISTORS

COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

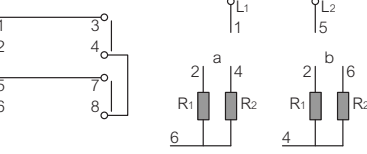
SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code															
1-2	0	1	2	3	-	-	-	4		7202	Ao4Z															
3-4		X		X																						
5-6			X	X																						
7-8		X																								
									<table><tr><td>Pos.</td><td>a</td><td>b</td></tr><tr><td>0</td><td>off</td><td>off</td></tr><tr><td>1</td><td>R₁</td><td>R₁+R₂ series</td></tr><tr><td>2</td><td>R₂</td><td>R₂</td></tr><tr><td>3</td><td>R₁+R₂ series</td><td>R₁</td></tr></table>	Pos.	a	b	0	off	off	1	R ₁	R ₁ +R ₂ series	2	R ₂	R ₂	3	R ₁ +R ₂ series	R ₁		
Pos.	a	b																								
0	off	off																								
1	R ₁	R ₁ +R ₂ series																								
2	R ₂	R ₂																								
3	R ₁ +R ₂ series	R ₁																								

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

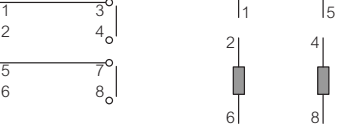
SWITCHING ANGLE

Contact Nos.	Positions								No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code															
	0	1	2	3	-	-	-	-																			
1-2		X	X	X					4		7204	Ao4Z															
3-4				X																							
5-6			X	X																							
7-8		X																									
										<table><tr><th>Pos.</th><th>a</th><th>b</th></tr><tr><td>0</td><td>off</td><td>off</td></tr><tr><td>1</td><td>R_1+R_2 series</td><td>R_1</td></tr><tr><td>2</td><td>R_1</td><td>R_1+R_2 series</td></tr><tr><td>3</td><td>R_1+R_2 //</td><td>R_2</td></tr></table>	Pos.	a	b	0	off	off	1	R_1+R_2 series	R_1	2	R_1	R_1+R_2 series	3	R_1+R_2 //	R_2		
Pos.	a	b																									
0	off	off																									
1	R_1+R_2 series	R_1																									
2	R_1	R_1+R_2 series																									
3	R_1+R_2 //	R_2																									

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

FUNCTION: COUPLING OF 2 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code										
	0	1	2	3	-	-	-														
1-2		X		X				4		7207	Ao4Z										
3-4			X	X																	
5-6		X		X																	
7-8			X	X																	
									<table><tr><th>Pos.</th><th>Function</th></tr><tr><td>0</td><td>off</td></tr><tr><td>1</td><td>R₁</td></tr><tr><td>2</td><td>R₂</td></tr><tr><td>3</td><td>R₁+R₂ //</td></tr></table>	Pos.	Function	0	off	1	R ₁	2	R ₂	3	R ₁ +R ₂ //		
Pos.	Function																				
0	off																				
1	R ₁																				
2	R ₂																				
3	R ₁ +R ₂ //																				

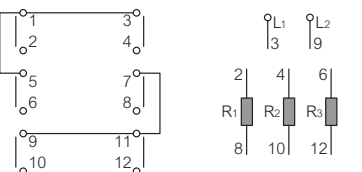
45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

Separate cam switches

► SWITCHES FOR COUPLING 3 RESISTORS

COUPLING OF 3 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

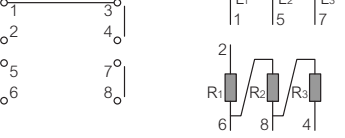
SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-	-				
1 -2		X	X	X				6		7211	Ao6Z
3 -4			X	X							
5 -6				X							
7 -8		X	X	X							
9 -10			X	X							
11 -12				X							
									Pos. Function 0 off 1 R ₁ 2 R ₁ +R ₂ // 3 R ₁ +R ₂ +R ₃ //		

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

COUPLING OF 3 RESISTORS, 3-PHASE NETWORK, TOTAL CUT-OFF AT OFF

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code										
	0	1	2	3	-	-	-														
1-2		X	X	X				4		7607	Ao4Z										
3-4				X																	
5-6		X	X	X																	
7-8			X	X																	
									<table><tr><th>Pos.</th><th>Function</th></tr><tr><td>0</td><td>off</td></tr><tr><td>1</td><td>R₁ (L₁/L₂)</td></tr><tr><td>2</td><td>R₁ (L₁/L₂), R₂ (L₂/L₃)</td></tr><tr><td>3</td><td>R₁, R₂, R₃ in ?</td></tr></table>	Pos.	Function	0	off	1	R ₁ (L ₁ /L ₂)	2	R ₁ (L ₁ /L ₂), R ₂ (L ₂ /L ₃)	3	R ₁ , R ₂ , R ₃ in ?		
Pos.	Function																				
0	off																				
1	R ₁ (L ₁ /L ₂)																				
2	R ₁ (L ₁ /L ₂), R ₂ (L ₂ /L ₃)																				
3	R ₁ , R ₂ , R ₃ in ?																				

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

Separate cam switches

► CODING SWITCHES

CODING SWITCH WITH OFF

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	10	11	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X		X		X		X		X	4		6501	Ao4Z
3-4			X-X			X-X			X-X		X-X					
5-6					X		X									
7-8								X		X						

30°



Cat. No. A1

CODING SWITCH WITHOUT OFF

SWITCHING ANGLE

Contact Nos.	1	2	3	4	5	6	7	8	9	10	11	12	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X		X		X		X		X		X		4		6502	Ao4Z
3-4		X-X			X-X			X-X		X-X						
5-6				X		X					X					
7-8							X		X			X				

30°



Cat. No. A1

CODING SWITCH, BCD CODE, 0 TO 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X		X		X		X			4		6503	Ao4Z
3-4			X-X			X-X			X-X							
5-6					X		X									
7-8								X-X		X-X						

30°



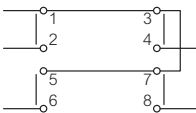
Cat. No. A1

Separate cam switches

► CODING SWITCHES (CONTINUED)

COMPLEMENTARY BCD CODE, 0 TO 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X		X		X		X		X				4		6504	Ao4Z
3 - 4	X	X			X	X			X	X						
5 - 6	X		X							X	X					
7 - 8	X							X								

30°

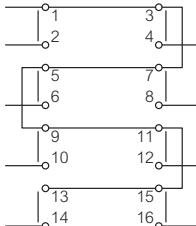


Cat. No.

A1

BCD CODE, 0 TO 9 + COMPLEMENTARY BCD CODE (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X		X		X		X		X				8		6505	Ao8Z
3 - 4			X	X			X	X								
5 - 6					X	X										
7 - 8							X	X								
9 - 10	X	X			X	X			X							
11 - 12	X	X			X	X			X	X						
13 - 14	X		X						X	X						
15 - 16	X							X								

30°



Cat. No.

A1

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 122)
Mini-switches are only available in standard formats.

► III - CHOICE OF MOUNTING

	Image	Page
► 2-screw panel mount Intervals 30 or 50 Intervals 35 or 36, 48, 54, 68		240 240 240
► Single hole mounting Ø 22 With plate frame and handle With key with selector switch		241 241 241 242
► Single hole mounting Ø 30 One-piece with handle One-piece with key		243 243 243
► Rear mounting Intervals 48 or 68 On DIN rail		244 244 244
► Dimensions Front and rear mounting (E and S) Front mounting (EZ) Single hole mounting Ø 22 (E N48MD50) Single hole mounting Ø 22 (E C21XXXX) Single hole mounting Ø 30 (E 30PN) Single hole mounting Ø 30 (E 30C) Rear mounting on DIN rail (SX)		245 245 247 249 249 250 251 252

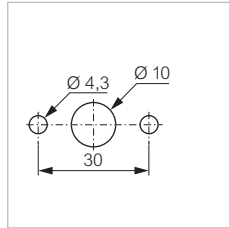
Separate cam switches

Dimensions (p. 245)

FRONT MOUNTING

2 SCREWS - 30 OR 50 MM INTERVAL

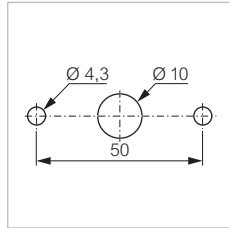
Cat. No.



For PR 12 to PR 160

Price list code

PR 12	-	E
PR 17	-	E
PR 21	-	E
PR 26	-	E

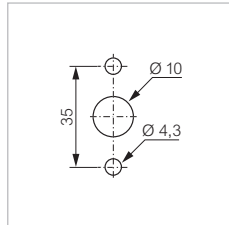


PR 40	-	E
PR 63	-	E
PR 125	-	E
PR 160	-	E

For foolproof shaft profile, add D to the type of mounting code (ED)

2 SCREWS - 35 MM INTERVAL OR □ 36, 48, 54 OR 68

Cat. No.



For PR 12 to PR 160

Price list code

35 mm interval

PR 12	Y533	EZ35
PR 17	Y523	EZ35
PR 21	Y524	EZ35
PR 26	Y525	EZ35

□ 36, 48, or 54 interval (see end of code)

PR 12	Y654	EZ36
PR 17	Y523	EZ36 or EZ48
PR 21	Y524	EZ36 or EZ48
PR 26	Y525	EZ36 or EZ54

□ 68 mm interval

PR 40	Y527	EZ68
PR 63	Y528	EZ68
PR 125	Y531	EZ68
PR 160	Y532	EZ68

For foolproof shaft profile, add D to the type of mounting code (eg: EZD35)

Separate cam switches

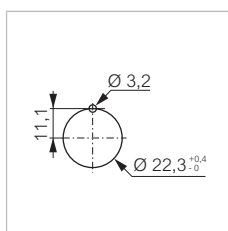
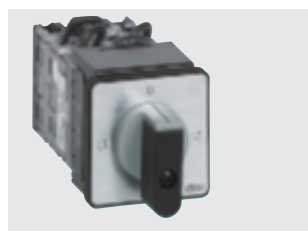
Dimensions (p. 249)

► ONE-HOLE MOUNTING Ø 22

WITH PLATE, FRAME AND HANDLE

For PR 12

Cat. No.



Max. number of contacts accepted: 12

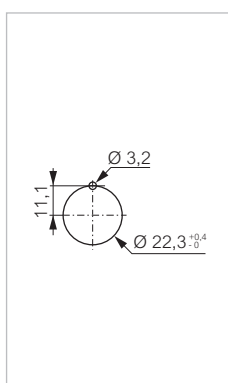
Price list code

☐ 48 legend plate with handle	N48MD50	N48MD50
☐ 48 legend plate with standard handle and aluminium legend plate	N480MD50	N480MD50

SELECTOR SWITCH WITH KEY

For PR 12

Cat. No.



Supplied with 2 keys n°455
Max. number of contacts accepted: 8
Legend plate can be used (p. 271)

Price list code

Key lock 90/45° for □ 5 mm shaft

Key free in:

1-3-5-7

3-7

1-5

2-4-6-8

2-6

4-8



C21RC00

C21RD00

C21RE00

C21RF00

C21RG00

C21RH00

C21RC00

C21RD00

C21RE00

C21RF00

C21RG00

C21RH00

☐ 48 plate, key free in:

1-3-5-7

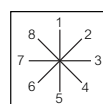
3-7

1-5

2-4-6-8

2-6

4-8



C21RC48

C21RD48

C21RE48

C21RF48

C21RG48

C21RH48

C21RC48

C21RD48

C21RE48

C21RF48

C21RG48

C21RH48

Key lock 60/30° for □ 5 mm shaft

Key free in:

1-3-5-7-9-11

1-7

3-9

5-11

2-4-6-8-10-12

4-10

2-8

6-12



C21RJ00

C21RK00

C21RQ00

C21RR00

C21RL00

C21RM00

C21RS00

C21RT00

C21RJ00

C21RK00

C21RQ00

C21RR00

C21RL00

C21RM00

C21RS00

C21RT00

☐ 48 plate, key free in:

1-3-5-7-9-11

1-7

3-7

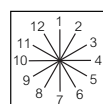
5-11

2-4-6-8-10-12

4-10

2-8

6-12



C21RJ48

C21RK48

C21RQ48

C21RR48

C21RL48

C21RM48

C21RS48

C21RT48

C21RJ48

C21RK48

C21RQ48

C21RR48

C21RL48

C21RM48

C21RS48

C21RT48

- For other bezels, replace 21 in the reference and the price list code with:

22 - black plastic

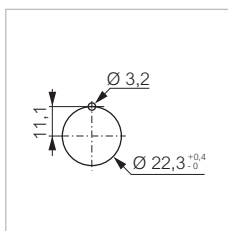
23 - grey plastic

24 - brilliant chromed brass

25 - brilliant chromed plastic

▶ ONE-HOLE MOUNTING Ø 22 (CONTINUED)

Cat. No.

**Price list code**

- Red
- Green
- Black
- Grey

C21RA01
C21RA02
C21RA03
C21RA08

- Red
- Green
- Black
- Grey

C21RB01
C21RB02
C21RB03
C21RB08

C21RA01
C21RA02
C21RA03
C21RA08

C21RB01
C21RB02
C21RB03
C21RB08

- **For other bezels**, replace 21 in the reference and the price list code with:

- 22 - black plastic
23 - grey plastic
24 - brilliant chromed brass
25 - brilliant chromed plastic
26 - matt anodised aluminium

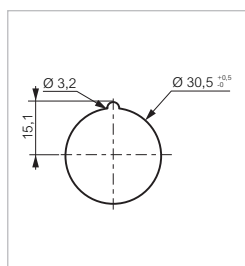
Separate cam switches

Dimensions (p. 245)

► SINGLE HOLE MOUNTING Ø 30

ONE-PIECE SELECTOR SWITCH

Cat. No.



The block consists of:

- 1 head and a plastic bezel enabling single hole Ø 30 mounting
 - a grey/black small handle
- Max. number of contacts accepted: 24

Price list code

PR 17	302PN	30PN
PR 21	303PN	30PN
PR 26	304PN	30PN

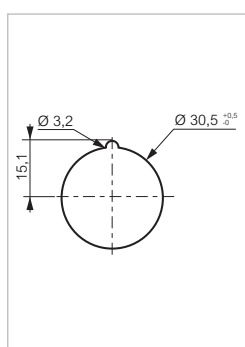
Extra charge for chrome brass bezel
(instead of plastic)

Y644⁽¹⁾

TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

ONE-PIECE KEY OPERATED



The block consists of:

- 1 head and a plastic bezel enabling single hole Ø 30 mounting
- 2 keys no. 455 or 1424 A to be stated on order

The key acts as an operating handle

The key is always captive:

in positions 2-4-6-8

The key is free:

in positions 1-3-5-7 (form p. 277)

The key can be captive:

in positions 1 + 5 or 3 + 7

The serrated edge of the key acts
as an indicator of the switch position

Max. number of contacts accepted: 8

Price list code

PR 17		30C2	30C
PR 21		30C3	30C
PR 26		30C4	30C

Extra charges

Key with plastic grip
(recommended for more
than 4 contacts)

Y646

30CM

Chrome brass bezel

Y644⁽¹⁾

TO BE SPECIFIED

Other key (other than 455 or 1424)

Y645⁽¹⁾

TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

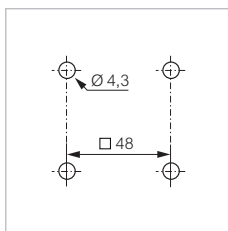
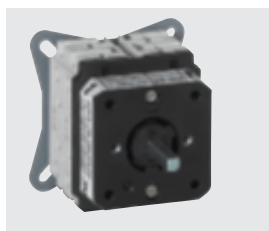
Separate cam switches

Dimensions (p. 245)

► REAR MOUNTING

2 SCREWS - INTERVAL □ 48 OR 68

Cat. No.



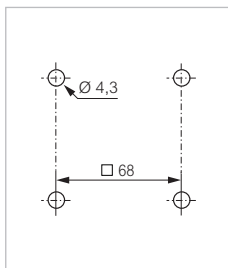
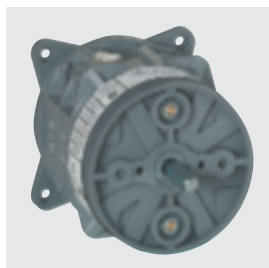
For PR 12 to PR 160

PR 12
PR 17
PR 21
PR 26

Price list code

Y513
Y503
Y504
Y505

S
S
S
S



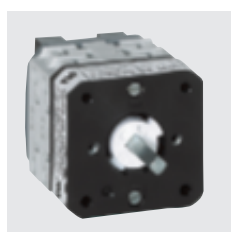
PR 40
PR 63
PR 125
PR 160

Y507
Y508
Y511
Y517

S
S
S
S

ON DIN RAIL

Cat. No.



For PR 12 to PR 26

Max. number of contacts
accepted: 8

PR 12
PR 17
PR 21
PR 26

Price list code

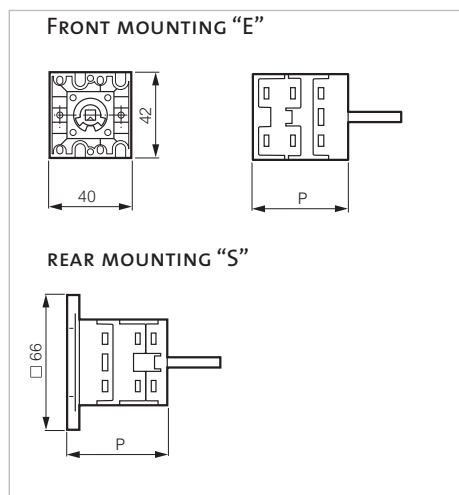
Y553
Y543
Y544
Y545

SX
SX
SX
SX

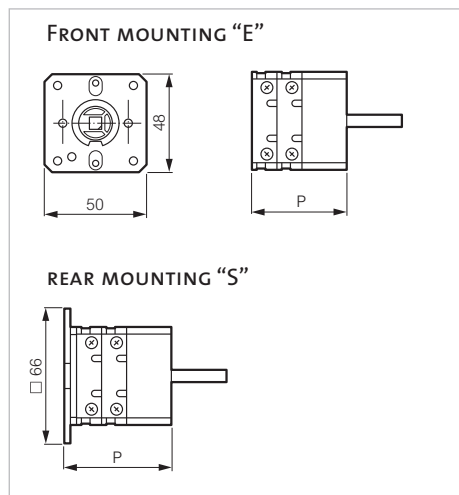
Separate cam switches

► DIMENSIONS

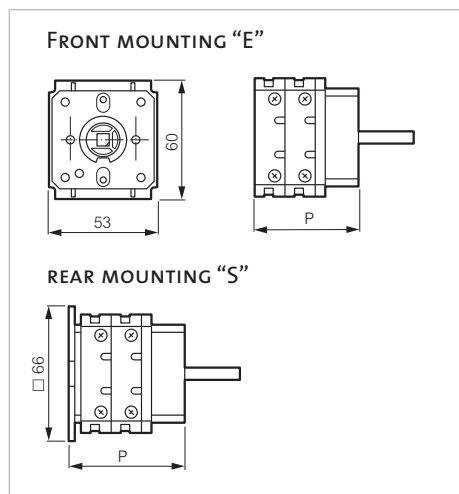
FRONT AND REAR MOUNTING (E AND S)



PR 12	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	46	52
	5-6	56	62
	7-8	66	72
	9-10	76	82
	11-12	86	92
	13-14	122	128
	15-16	132	138
	17-18	142	148
	19-20	152	158
	21-22	162	168
	23-24	172	178



PR 17/21	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	33	39
	3-4	45	51
	5-6	57	63
	7-8	69	75
	9-10	81	87
	11-12	93	99
	13-14	105	111
	15-16	117	123
	17-18	129	135
	19-20	141	147
	21-22	153	159
	23-24	165	171



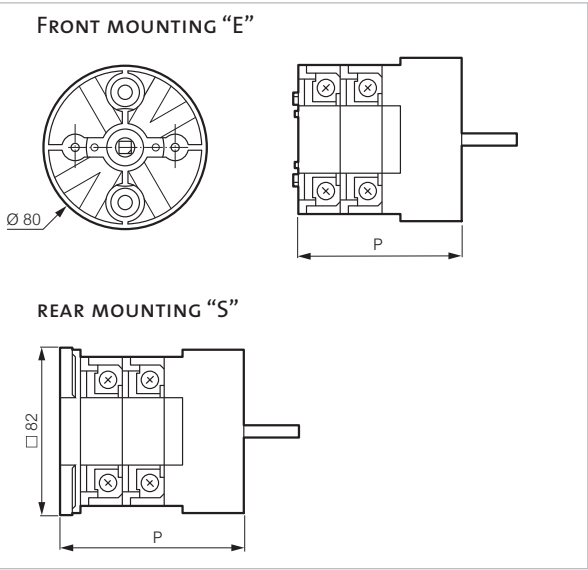
PR 26	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	51	57
	5-6	66	72
	7-8	81	87
	9-10	96	102
	11-12	111	117
	13-14	126	132
	15-16	141	147
	17-18	156	162
	19-20	171	177
	21-22	186	192
	23-24	201	207

* P = Depth

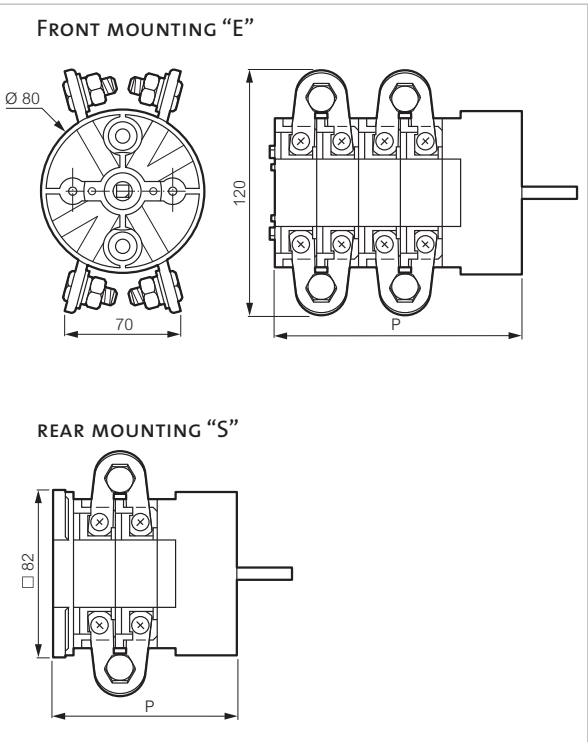
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT AND REAR MOUNTING (E AND S)



PR 40/63	No. of contacts	Front mounting p*	Rear mounting p*
	1-2	60	70
	3-4	80	90
	5-6	100	110
	7-8	120	130
	9-10	140	150
	11-12	160	170
	13-14	180	190
	15-16	200	210
	17-18	220	230
	19-20	240	250
	21-22	260	270
	23-24	280	290



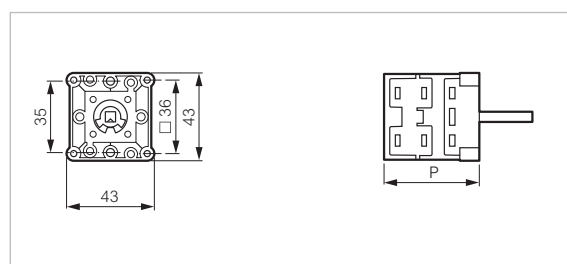
PR 125/160	No. of contacts	Front mounting p*	Rear mounting p*
	1-2	80	90
	3-4	120	130
	5-6	160	170
	7-8	200	210
	9-10	240	250
	11-12	280	290

* P = Depth

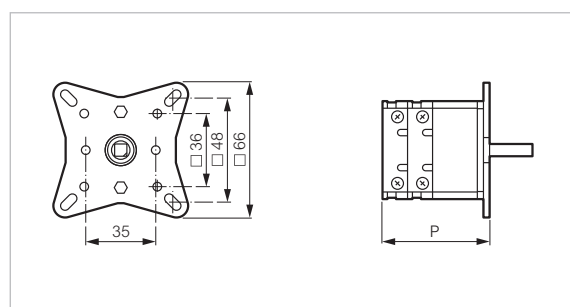
Separate cam switches

► DIMENSIONS (CONTINUED)

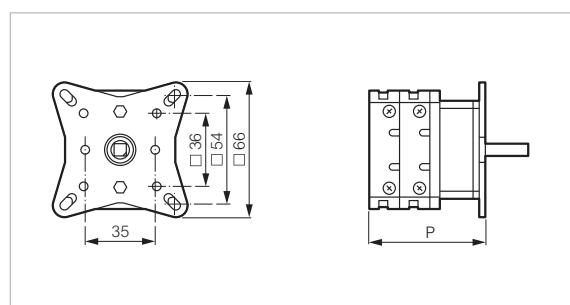
FRONT MOUNTING (EZ)



PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66
	9-10	76
	11-12	86
	13-14	122
	15-16	132
	17-18	142
	19-20	152
	21-22	162
	23-24	172



PR 17/21	No. of contacts	P*
	1-2	39
	3-4	51
	5-6	63
	7-8	75
	9-10	87
	11-12	99
	13-14	111
	15-16	123
	17-18	135
	19-20	147
	21-22	159
	23-24	171



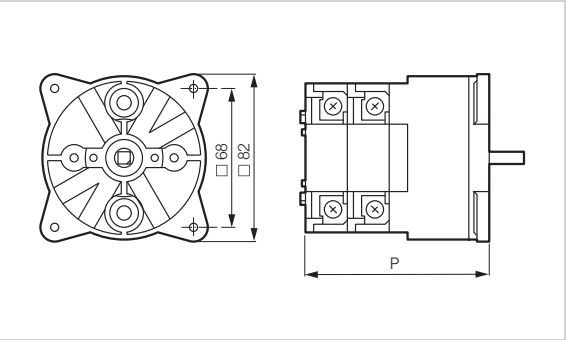
PR 26	No. of contacts	P*
	1-2	42
	3-4	57
	5-6	72
	7-8	87
	9-10	102
	11-12	117
	13-14	132
	15-16	147
	17-18	162
	19-20	177
	21-22	192
	23-24	207

* P = Depth

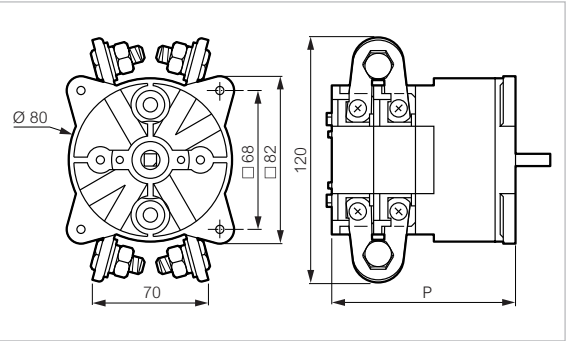
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT MOUNTING (EZ)



PR 40/63	No. of contacts	p*
	1-2	60
	3-4	80
	5-6	100
	7-8	120
	9-10	140
	11-12	160
	13-14	180
	15-16	200
	17-18	220
	19-20	240
	21-22	260
	23-24	280



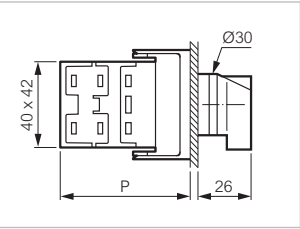
PR 125/160	No. of contacts	p*
	1-2	80
	3-4	120
	5-6	160
	7-8	200
	9-10	240
	11-12	280

* P = Depth

Separate cam switches

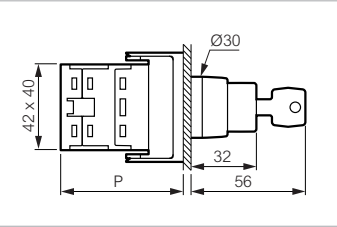
► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 22 (E N48MD50)

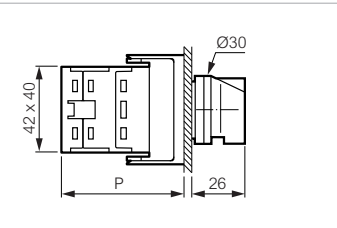


PR 12	No. of contacts	P*
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

SINGLE HOLE MOUNTING Ø 22 (E C21XXXX)



PR 12	No. of contacts	P*
With key	1-2	51
	3-4	61
	5-6	71
	7-8	81



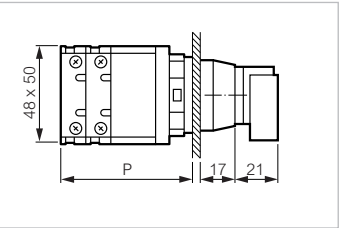
With handle/long handle	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

* P = Depth

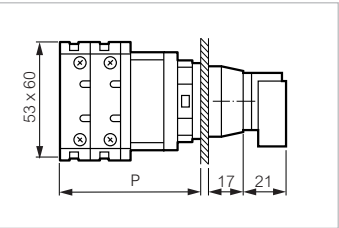
Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30PN)



	No. of contacts	p*
PR 17/21	1-2	47.5
	3-4	59.5
	5-6	71.5
	7-8	83.5
	9-10	95.5
	11-12	107.5
	13-14	119.5
	15-16	131.5
	17-18	143.5
	19-20	155.5
	21-22	167.5
	23-24	179.5



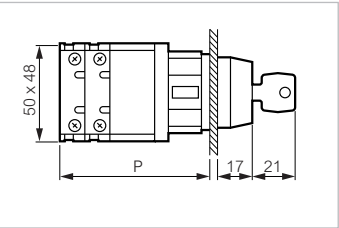
* P = Depth

PR 26	1-2	50.5
	3-4	65.5
	5-6	80.5
	7-8	95.5
	9-10	110.5
	11-12	125.5
	13-14	140.5
	15-16	155.5
	17-18	170.5
	19-20	185.5
	21-22	200.5
	23-24	215.5

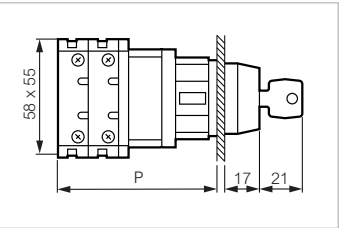
Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30C)



	No. of contacts	P*
PR 17/21	1-2	56.5
	3-4	68.5
	5-6	80.5
	7-8	92.5
	9-10	104.5
	11-12	116.5
	13-14	128.5
	15-16	140.5
	17-18	152.5
	19-20	164.5
	21-22	176.5
	23-24	188.5



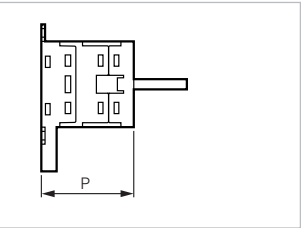
PR 26	1-2	59.5
	3-4	74.5
	5-6	89.5
	7-8	104.5
	9-10	119.5
	11-12	134.5
	13-14	149.5
	15-16	164.5
	17-18	179.5
	19-20	194.5
	21-22	209.5
	23-24	224.5

* P = Depth

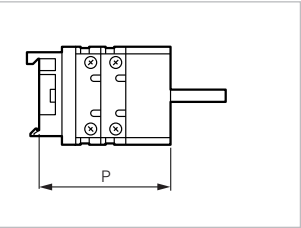
Separate cam switches

► DIMENSIONS (CONTINUED)

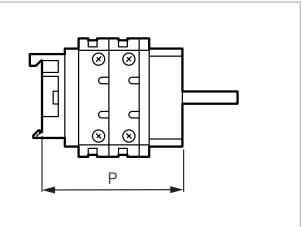
REAR MOUNTING ON DIN RAIL (SX)



	No. of contacts	P*
PR 12	1-2	36
	3-4	46
	5-6	56
	7-8	66



PR 17/21	1-2	49
	3-4	61
	5-6	73
	7-8	85



PR 26	1-2	52
	3-4	67
	5-6	82
	7-8	97

* P = Depth

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 122)
Mini cam switches are only available in standard formats.

► IV - CHOICE OF PRESENTATION

		Page
► Complete plate, frame and handle PR 12 to PR 16o		254 254
► Plate, frame and handle: other combinations Plate and frame for PR 12 to PR 16o Handles for PR 12 to PR 16o		255 255 256
► Padlockable Plate, frame and handle for PR 12 to PR 16o Clutch drive without door interlock for PR 12 to PR 16o		257 257 258
► Enclosure Compact size BPR for PR 12 Normal type BC for PR 12 to PR 26 Normal type BCF for PR 40 to PR 63		260 260 261 262
► With key locking Plate, frame and handle for PR 12 to PR 16o		264 264
► Parallel coupling of 2 switches With handle PR 12 to PR 16o		265 265
► Serial coupling of 2 switches With handle PR 12 to PR 16o		266 266
► Dual-voltage device With plate, frame and handle PR 12 to PR 26		267 267

Separate cam switches

Standard engraving (p. 276)

► PLATE, FRAME AND HANDLE

Type

Cat. No.



For PR 12 to PR 160

Aluminium plate + grey/black handle/long handle
Blank label
The price for the presentation includes engraving of the usual texts and symbols (engraving to be specified)

Price list code

PR 12 to PR 26

- ☐ **48 plate and frame**
- + small handle
- + duty label + small handle
- + small lever
- + Duty label + small lever

Q48PN
Q48OPN
Q48PC
Q48OPC

Q48PN50
Q48OPN50
Q48PC50
Q48OPC50

- ☐ **64 plate and frame**
- + small handle
- + duty label + small handle
- + small lever
- + Duty label + small lever

Q64PN
Q64OPN
Q64PC
Q64OPC

Q64PN50
Q64OPN50
Q64PC50
Q64OPC50

PR 40 to PR 160

- ☐ **64 plate and frame**
- + medium handle
- + duty label + medium handle
- + small lever
- + small lever

Q64MN
Q64OMN
Q64PC
Q64OPC

Q64MN60
Q64OMN60
Q64PC60
Q64OPC60

- ☐ **72 plate and frame**
- + medium handle
- + duty label + medium handle
- + small lever
- + Duty label + small lever

Q72MN
Q72OMN
Q72PC
Q72OPC

Q72MN60
Q72OMN60
Q72PC60
Q72OPC60

- ☐ **96 plate and frame**
- + large handle
- + large lever

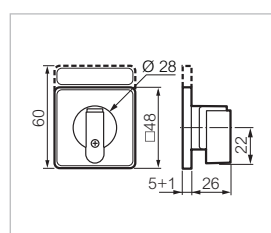
Q96GN
Q96GC

Q96GN60
Q96GC60

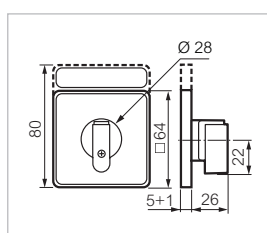
Extra charges

Standard engraving
Customised engraving

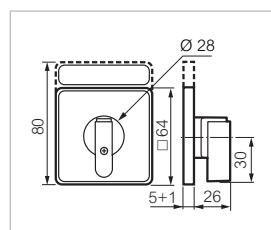
Y000
Y100



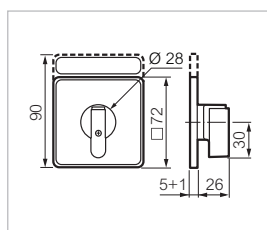
Q48PN



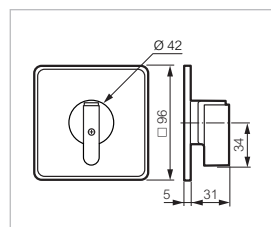
Q64PN



Q64MN



Q72MN



Q96GN

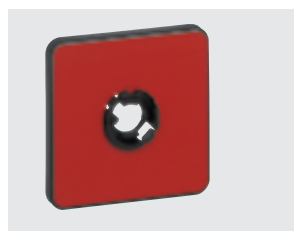
Separate cam switches

Standard engraving (p. 276)

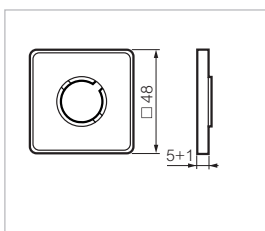
▶ PLATE AND FRAME

Other combinations

Cat. No.



Q61



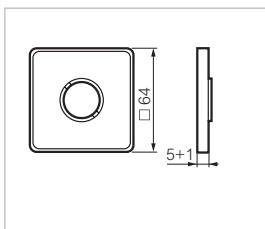
□ 48

For PR 12 to PR 160

For complete presentation, add handle
The price for the presentation includes engraving
of standard texts and symbols (p. 276)
Other engraving (form p. 277)
Duty label with aluminium plate



Q780



□ 64

□ 48 plate (PR 12 to PR 26)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

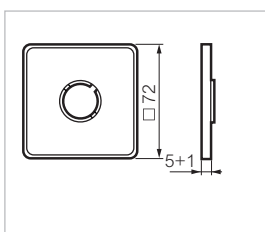
Price list code

Q41	Q41
Q410	Q410
Q43	Q43
Q430	Q430
Q45	Q45
Q450	Q450
Q48	Q48
Q480	Q480

□ 64 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

Q61	Q61
Q610	Q610
Q63	Q63
Q630	Q630
Q65	Q65
Q650	Q650
Q64	Q64
Q640	Q640

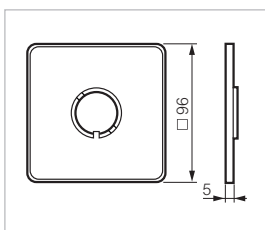


□ 72

□ 72 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

Q71	Q71
Q710	Q710
Q73	Q73
Q730	Q730
Q75	Q75
Q750	Q750
Q72	Q72
Q720	Q720



□ 96

□ 96 plate (PR 40 to PR 160)

- Red
- Black
- Yellow
- Aluminium

Q91	Q91
Q93	Q93
Q95	Q95
Q96	Q96

Separate cam switches

Standard engraving (p. 276)

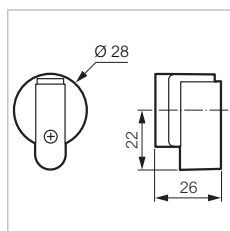
HANDLES

Other combinations

Cat. No.



MN61



PN

For PR 12 to PR 160

For complete products, add plate + handle

Price list code

PR 12 to PR 26

- Red - small handle
- Black - small handle
- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever

PN51

PN51

PN53

PN53

MN51

MN51

MN53

MN53

GN51

GN51

GN53

GN53

PC51

PC51

PC53

PC53

PR 40 to PR 160

- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever
- Red - large lever
- Black - large lever

MN61

MN61

MN63

MN63

GN61

GN61

GN63

GN63

PC61

PC61

PC63

PC63

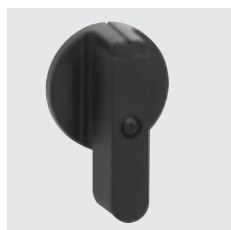
GC61

GC61

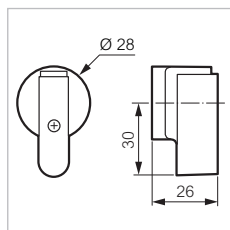
GC63

GC63

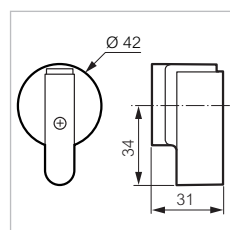
Version with foolproofing and other colours (see p. 269/270)



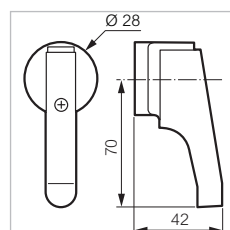
GN63



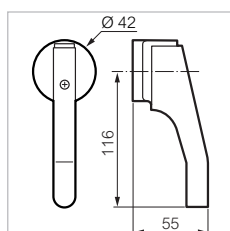
MN



GN



PC



GC

Separate cam switches

Standard engraving (p. 276)

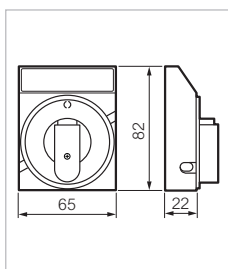
► PADLOCKABLE PRESENTATION

Other combinations

Cat. No.



J48PN51



For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Price list code

PR 12 to PR 26 - Mounting 30 mm interval

small frame □ 48,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

Medium frame □ 72,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

PR 40 to PR 160 - Mounting 50 mm interval

Medium frame □ 72,
medium red handle

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

Large frame □ 96,

With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J960GN61
J961GN61
J962GN61
J963GN61

J960GN61
J961GN61
J962GN61
J963GN61

Extra charges

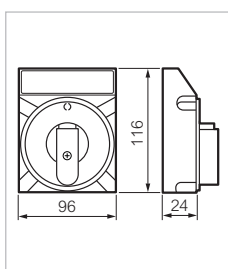
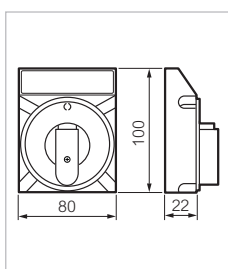
Standard engraving
Customised engraving
IP 65 version

Y000
Y100
Y661

If the switching angle is different from 60°, replace J with H



V723MN



- For version with grey plate, grey/black handle,
replace the letter J with the letter V in the
reference and delete the last 2 two digits (51 or 61)

- If the switching angle is different from 60°
replace V with G in the reference

- For difference mounting intervals, the addition of an
adaptor plate allows intervals EZ 35, EZ 36/48/68 (see
p. 247/248)

The reference then becomes:

J44/440 for □ 48

J74/740 for □ 72

J940 for □ 96

Separate cam switches

Standard engraving (p. 276)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock

Cat. No.



R5J48PN61

For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Rear mounting

Price list code

PR 12 to PR 26

Small frame □ 48,
Front mounting possible
(A, C or D see p. 259)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

R5J48PN61
R5J480PN61
R5J481PN61
R5J482PN61
R5J483PN61

R5J48PN61
R5J480PN61
R5J481PN61
R5J482PN61
R5J483PN61

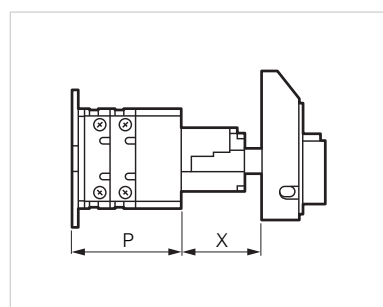
Medium frame □ 72,
Front mounting possible
(A, C, D or E see p. 259)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

R5J72MN61
R5J720MN61
R5J721MN61
R5J722MN61
R5J723MN61

R5J72MN61
R5J720MN61
R5J721MN61
R5J722MN61
R5J723MN61

If the switching angle is different from 60°:
Replace J with H



S mounting method (see p. 245)
X = 45 to 65 mm (+ 31, 62 or 93 mm
with extension piece)

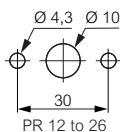
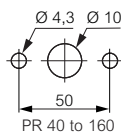
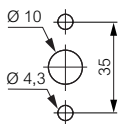
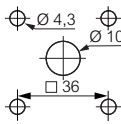
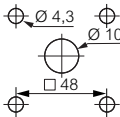
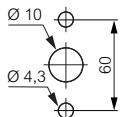
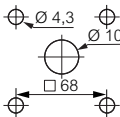
Separate cam switches

Standard engraving (p. 276)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock

Cat. No.

A		B		For PR 12 to PR 160 Yellow presentation, red handle for up to 4 padlocks Rear mounting			
C		D		PR 40 to PR 160 Medium frame □ 72, Front mounting possible (B, C, D or E) Without engraving With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	Price list code R6J72MN61 R6J720MN61 R6J721MN61 R6J722MN61 R6J723MN61	R6J72MN61 R6J720MN61 R6J721MN61 R6J722MN61 R6J723MN61	
E		F		Large frame □ 96, Front mounting possible (B, C, D, E, or G) With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	R6J960GN61 R6J961GN61 R6J962GN61 R6J963GN61	R6J960GN61 R6J961GN61 R6J962GN61 R6J963GN61	
G							
				Extra charges Extra charge for standard engraving Extra charge for customised engraving Extra charge for IP 65 version	Y000 Y100 Y662		
				Accessories Adjusting clips for door alignment Extension piece 31 mm, for control shaft (max. 3 per switch) Relay terminals 16 mm ² (pair) Operating key, when door open	WR01 WR02 WR03 WR04	WR01 WR02 WR03 WR04	
				If the switching angle is different from 60°: Replace J with H			

- For version with grey plate, grey/black handle
replace the letter J with the letter V in the
reference and delete 61

- For clutch drive with door interlock
replace the letter R with V in the reference

Separate cam switches

Standard engraving (p. 276)

► ENCLOSURE

TYPE BPR

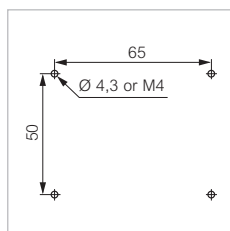
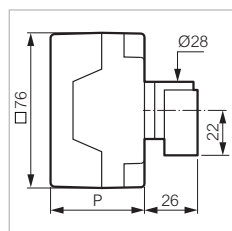
Compact size

Cat. No.



PR 12 for mounting in enclosure, special version with inverted terminals

Base mounting PR 12
Enclosure in light grey, self-extinguishing thermoplastic
IP 40
4 knock-out $\varnothing$ 19 cable entries for Pg 11 with nut
The price for the presentation includes engraving of the standard texts and symbols



PR 12 - 1 or 2 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation small red handle
- Grey, padlockable presentation, small grey-black handle

Price list code

BPR01Q48	BPRQ48PN
BPR01J	BPRJ48PN51
BPR01V	BPRV48PN

PR 12 - 3 or 4 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation small red handle
- Grey, padlockable presentation, small grey-black handle

BPR02Q48	BPRQ48PN
BPR02J	BPRJ48PN51
BPR02V	BPRV48PN

Accessories

Cable gland Pg11 with nut	CM10P	CM10P
Relay terminals 2 x 6 mm ² (max. 2)	162122	162122

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y632

Foolproofing (see p. 281)

P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

- for other legend plate colours

replace Q48 (in the reference and price list code) with:

- Q41 - □ 48 red legend plate
- Q43 - □ 48 black legend plate
- Q45 - □ 48 yellow legend plate

- for other handle colours

replace PN (in the reference) with:

- PN51 - small red handle
- PN53 - small black handle

Separate cam switches

Standard engraving (p. 276)

► ENCLOSURE

TYPE BC

Standard size enclosure

Cat. No.



PR 12 to PR 26

Version with base mounted cam switch
Enclosure in self-extinguishing thermoplastic
black base, light grey cover
IP 40
4 knock-out $\varnothing$ 23 cable entries for Pg 16 with nut
The price for the presentation includes engraving
standard texts and symbols

Price list code

PR 12 - 1 to 6 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC21Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC21J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC21V48	BCV48

PR 12 - 7 to 10 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC22Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC22J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC22V48	BCV48

PR 17-21 - 1 to 6 contacts

PR 26 - 1 to 4 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC23Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC23J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC23V48	BCV48

PR 17-21 - 7 to 10 contacts

PR 26 - 5 to 8 contacts

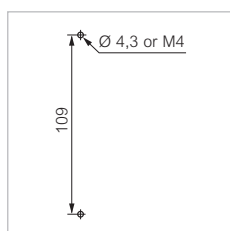
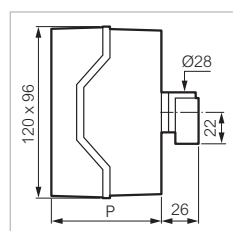
☐ 64 plate and frame		
● Aluminium, black handle	BC24Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC24J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC24V48	BCV48

Accessories

Cable gland Pg16 with nut	CM14P	CM14P
Relay terminals (pair)	WR03	WR03
Tamperproof screw (pair)	WR05	WR05

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y663



P *	Price list code	Contacts
77	BC21-23	1-6 CONTACTS (1-4 PR26)
101	BC22-24	7-10 CONTACTS (5-8 PR26)

P * = Depth

- for other colours, legend plates and handles
replace Q3 (in the reference and
price list code with:

Q1 - aluminium legend plate, red handle
R1 - red legend plate, red handle
J1 - red legend plate, yellow handle
N3 - black legend plate, black handle

Separate cam switches

Standard engraving (p. 276)

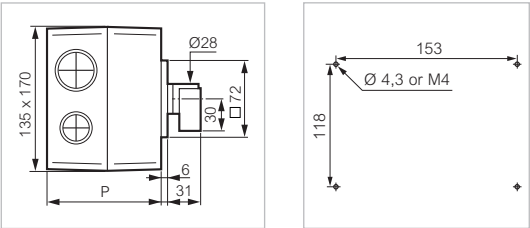
► ENCLOSURE

TYPE BCF	Standard size enclosure	Cat. No.
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PR 40 to PR 63

Version with base mounted cam switch
Enclosure in light grey, self-extinguishing thermoplastic
IP 40
10 knock-out cable entries:
6 x Ø 29 for Pg 21
(2 above and below, 1 on each side)
4 x Ø 38 for Pg 29 (1 on each side)
The price for the presentation includes engraving of the standard texts and symbols



D	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth

Price list code	
PR 40-63 - 1 and 2 contacts	
Without presentation	BCF140 BCF
□ 72 plate and frame	
● Aluminium, medium grey/black handle	BCF140Q72 BCFQ72MN
● Yellow, padlockable presentation medium red handle	BCF140J72 BCFJ72MN61
□ 96 plate and frame	
● Aluminium, large grey/black handle	BCF140Q96 BCFQ96GN
PR 40-63 - 3 and 4 contacts	
Without presentation	BCF240 BCF
□ 72 plate and frame	
● Aluminium, medium grey/black handle	BCF240Q72 BCFQ72MN
● Yellow, padlockable presentation medium red handle	BCF240J72 BCFJ72MN61
□ 96 plate and frame	
● Aluminium, large grey/black handle	BCF240Q96 BCFQ96GN

Separate cam switches

Standard engraving (p. 276)

► ENCLOSURE

TYPE BCF (continued)

Standard size enclosure

Cat. No.



PR 40-63 - 5 and 6 contacts

Without presentation

□ 72 plate and frame

● Aluminium,

medium grey/black handle

● Yellow, padlockable presentation

medium red handle

□ 96 plate and frame

● Aluminium,

large grey/black handle

Price list code

BCF340

BCF

BCF340Q72

BCFQ72MN

BCF340J72

BCFJ72MN61

BCF340Q96

BCFQ96GN

PR 40-63 - 7 and 8 contacts

Without presentation

□ 72 plate and frame

● Aluminium,

medium grey/black handle

● Yellow, padlockable presentation

medium red handle

□ 96 plate and frame

● Aluminium,

large grey/black handle

BCF440

BCF

BCF440Q72

BCFQ72MN

BCF440J72

BCFJ72MN61

BCF440Q96

BCFQ96GN

Accessories

Cable gland Pg 21 with nut

CM18P

CM18P

Cable gland Pg 29 with nut

CM24P

CM24P

Extra charges

Standard engraving

Y000

Customised engraving

Y100

IP 55 version

Y647

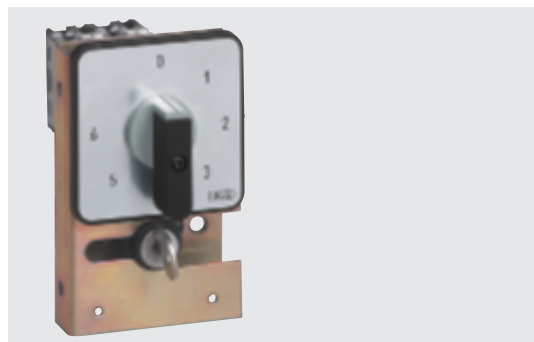
Separate cam switches

Standard engraving (p. 276)

► KEYLOCKING DEVICE

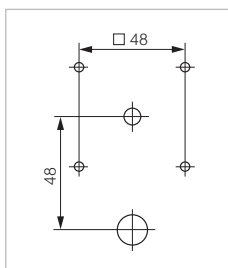
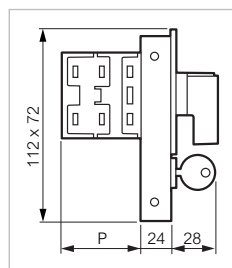
Plate and frame (quadral)

Cat. No.



For PR 12 to PR 160
For switch in front mounting mode
With keylocking

Handle locked in all positions
key no. 455
(or 1424A, state requirement on order, no extra charge)
Key can be withdrawn in locked and
unlocked positions
On request, the handle can be:
- locked in certain positions (to be stated on order)
The key can be:
- withdrawn in locked position
only (to be stated on order)



P *: front mounting E (p. 245)

* P = Depth

Price list code

PR 12 to PR 160

- 64 plate and frame
 - Aluminium, medium grey/black handle
- 72 plate and frame
 - Aluminium, medium grey/black handle

Q64MNC

Q64MNC

Q72MNC

Q72MNC

Extra charges

Other combinations

Y645

Foolproofing and special shaft (see p. 281)

- for other plate colours

- replace (in the reference and price list code)
Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

- replace (in the reference and price list code)
Q72 with:

- Q71 - red plate
- Q73 - black plate
- Q75 - yellow plate

- for other medium handle colours PR 12 to PR 26

- replace (in the reference and price list code)
MN with:

- MN51 - red medium handle
- MN53 - black medium handle

- for other handle colours PR 40 to PR 160

- replace (in the reference and price list code)
MN with:

- MN61 - red medium handle
- MN63 - black medium handle

Separate cam switches

Standard engraving (p. 276)

► PARALLEL COUPLING OF 2 SWITCHES

Plate and frame (quadral)

Cat. No.



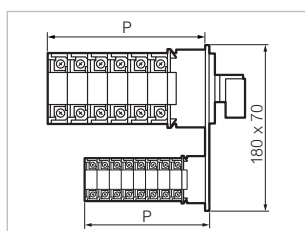
For PR 12 to PR 160
For switch in front mounting mode

Applications:

- For diagrams requiring more contacts than the maximum number possible
- where there is limited depth available

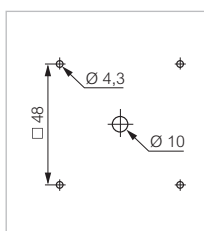
There is a driving switch actuated by the handle, and a driven switch actuated by a gear train

Both switches have the same switching angle and number of positions



P*: front mounting E (p. 245)

* P = Depth



PR 12 to PR 160

Driving switch presentation

☐ 64 plate and frame

● Aluminium,
medium grey/black handle

☐ 72 plate and frame

● Aluminium,
medium grey/black handle

☐ 96 plate and frame

● Aluminium,
large grey/black handle

Price list code

Q64MNAP Q64MNAP

Q72MNAP Q72MNAP

Q96GNAP Q96GNAP

Extra charges

Foolproofing and special shaft (see p. 281)

Possibility of coupling 2 cam switches in parallel:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12	X	X	X	X	X
PR 17 - PR 21		X	X	X	X
PR 26			X	X	X
PR 40 - PR 63				X	

- for other plate colours, replace (in the reference and the price list code)

Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

Q72 with:

- Q71 - red plate
- Q73 - black plate
- Q75 - yellow plate

Q96 with:

- Q91 - red plate
- Q93 - black plate
- Q95 - yellow plate

- for other handle colours, replace (in reference and price list code)

For PR 12 to PR 26, MN or PC with:

- MN51 or PC51 - red medium handle / small lever
- MN53 or PC53 - black medium handle / small lever

For PR 40 to PR 160, MN or PC with:

- MN61 or PC61 - red medium handle / small lever
- MN63 or PC63 - black medium handle / small lever

For PR 40 to PR 160, GN or GC with:

- GN61 or GC61 - red large handle / large lever
- GN63 or GC63 - black large handle / large lever

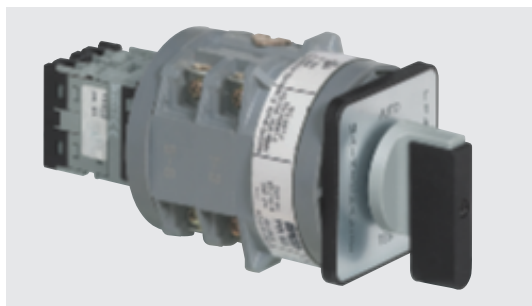
Separate cam switches

Standard engraving (p. 276)

► SERIAL COUPLING OF 2 SWITCHES

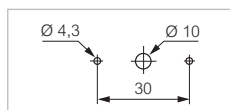
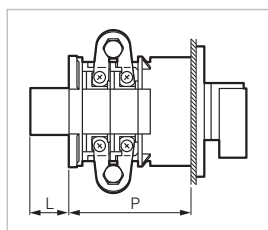
Plate and frame (quadral)

Cat. No.

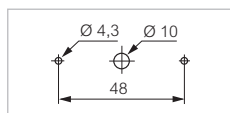


For PR 12 to PR 160
For switch in front mounting mode

Applications:
- for very different current circuits
- limited to 12 contact stages in total
(1 PR stage 125-160 = 2 stages)
There is a driving switch actuated by the handle,
and a driven switch
Both switches have the same switching angle and number of positions



PR 12 TO PR 26



PR 40 TO PR 160

P *: see front mounting E
(p. 245)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

Q72 with:

- Q71 - red plate
- Q73 - blackplate
- Q75 - yellow plate

Q96 with:

- Q91 - red plate
- Q93 - black plate
- Q95 - yellow plate

- for other handle colours,

replace (in reference and price list code)

For PR 12 to PR 26, MN or PC with:

- MN51 or PC51 - red medium handle / small lever
- MN53 or PC53 - black medium handle / small lever

For PR40 to PR 160, MN or PC with:

- MN61 or PC61 - red medium handle / small lever
- MN63 or PC63 - black medium handle / small lever

For PR40 to PR 160, GN or GC with:

- GN61 or GC61 - red large handle / large lever
- GN63 or GC63 - black large handle / large lever

Price list code

PR 12 to PR 160

Driving switch presentation

- ☐ 64 plate and frame
- Aluminium, medium grey/black handle
- ☐ 72 plate and frame
- Aluminium, medium grey/black handle
- ☐ 96 plate and frame
- Aluminium, large grey/black handle

Q64MNAS

Q64MNAS

Q72MNAS

Q72MNAS

Q96GNAS

Q96GNAS

Extra charges

Foolproofing and special shaft (see p. 281)

Possibility of coupling 2 cam switches in series:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12		X	X	X	X
PR 17 - PR 21			X	X	X
PR 26				X	X
PR 40 - PR 63					X

Separate cam switches

Standard engraving (p. 276)

► DUAL-VOLTAGE DEVICE

Plate and frame (quadral)

Cat. No.

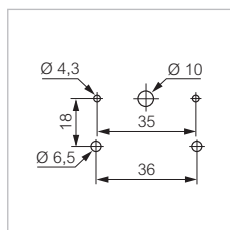
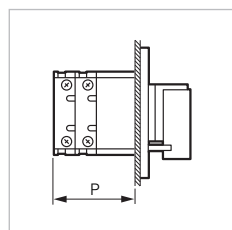


For PR 12 to PR 26
For switch in front mounting mode

Applications:
For locking the handle in the right or left position,
to prevent wrong switching



Example: Off position in the middle
and max. 90° rotation
to right or left



P *: see front mounting E (p. 245)

* P = Depth

PR 12

Dual-voltage device
with □ 64 plate and frame
● Aluminium,
medium grey/black handle

Price list code

EZS64MN

EZS64MN

PR 17-21 and PR 26

Dual-voltage device
with □ 72 plate and frame
● Aluminium,
medium grey/black handle

EZS72MN

EZS72MN

Extra charges

Foolproofing and special shaft (see p. 281)

- for other plate colours, replace (in the reference and the price list code)

EZS64 with:

- EZS61 - red plate
- EZS63 - black plate
- EZS65 - yellow plate

EZS72 with:

- EZS71 - red plate
- EZS73 - black plate
- EZS75 - yellow plate

- for other medium handle colours, replace (in reference and price list code)

MN with:

- MN51 - red medium handle
- MN53 - black medium handle

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 122)
Mini cam switches are only available in standard formats.

► V - OPTIONS AND COMPONENTS

FUNCTIONS		Page
► Handles and levers		269
Handles PR 12 to PR 26		269
Handles PR 40 to PR 160		269
Levers PR 12 to PR 26		270
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► Empty enclosures (for local assembly)		282
BPR type		282
BC type		282
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Separate cam switches

HANDLES

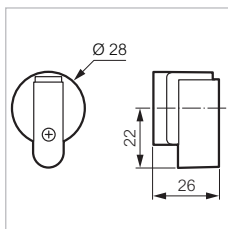
HANDLES

FOR PR 12 TO PR 26

Cat. No.



PN50



PN

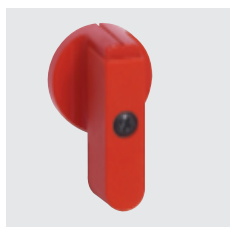
For □ 5 shaft

Small handle

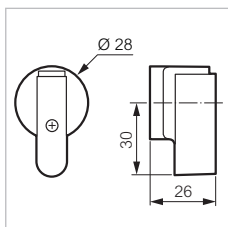
- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

PN50	PN50
PND50	PND50
PN51	PN51
PND51	PND51
PN53	PN53
PND53	PND53



MN51

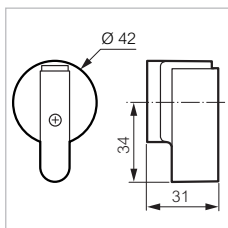


MN

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

MN50	MN50
MND50	MND50
MN51	MN51
MND51	MND51
MN53	MN53
MND53	MND53



GN

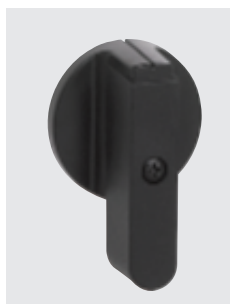
Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

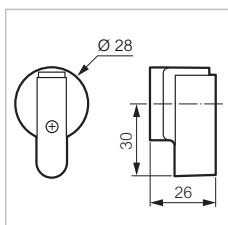
GN50	GN50
GND50	GND50
GN51	GN51
GND51	GND51
GN53	GN53
GND53	GND53

FOR PR 40 TO PR 160

Cat. No.



GN63



MN

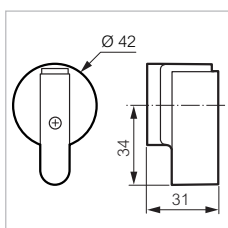
For □ 6 shaft

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

MN60	MN60
MND60	MND60
MN61	MN61
MND61	MND61
MN63	MN63
MND63	MND63



GN

Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

GN60	GN60
GND60	GND60
GN61	GN61
GND61	GND61
GN63	GN63
GND63	GND63

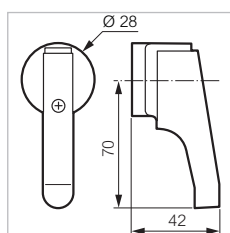
Separate cam switches

LEVERS

LEVERS	For PR 12 to PR 40	Cat. No.
--------	--------------------	----------



PC50



PC

For □ 5 shaft

Small levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

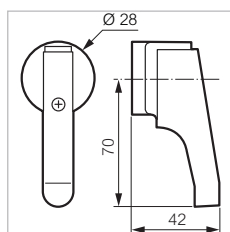
Price list code

PC50	PC50
PCD50	PCD50
PC51	PC51
PCD51	PCD51
PC53	PC53
PCD53	PCD53

LEVERS	For PR 40 to PR 160	Cat. No.
--------	---------------------	----------



PC60



PC

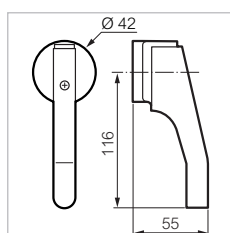
For □ 6 shaft

Small levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

PC60	PC60
PCD60	PCD60
PC61	PC61
PCD61	PCD61
PC63	PC63
PCD63	PCD63



GC

Large levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

GC60	GC60
GCD60	GCD60
GC61	GC61
GCD61	GCD61
GC63	GC63
GCD63	GCD63

Separate cam switches

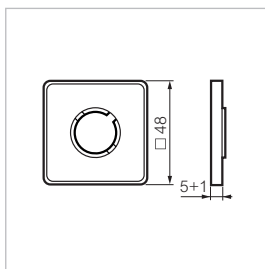
Standard engraving (p. 276)

► PLATES

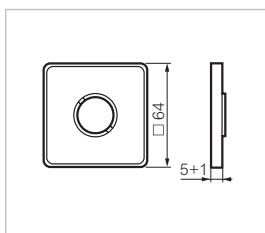
Cat. No.



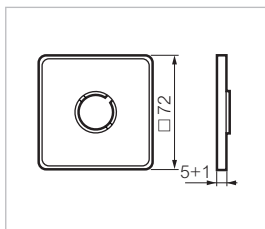
WE70000



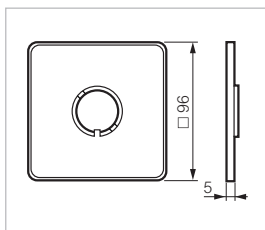
□ 48



□ 64



□ 72



□ 96

Fit onto frame and onto one-hole mounting $\varnothing$ 22 head (except □ 96)

Price list code

□ 48

- Aluminium
- Red
- Black
- Yellow
- Transparent

WE40	WE40
WE41	WE41
WE43	WE43
WE45	WE45
WE47	WE47

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving
- Transparent - with engraving

WE40000	WE40000
WE41000	WE41000
WE43000	WE43000
WE45000	WE45000
WE47000	WE47000

□ 64

- Aluminium
- Red
- Black
- Yellow
- Transparent

WE60	WE60
WE61	WE61
WE63	WE63
WE65	WE65
WE67	WE67

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving
- Transparent - with engraving

WE60000	WE60000
WE61000	WE61000
WE63000	WE63000
WE65000	WE65000
WE67000	WE67000

□ 72

- Aluminium
- Red
- Black
- Yellow
- Transparent

WE70	WE70
WE71	WE71
WE73	WE73
WE75	WE75
WE77	WE77

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving
- Transparent - with engraving

WE70000	WE70000
WE71000	WE71000
WE73000	WE73000
WE75000	WE75000
WE77000	WE77000

□ 96

- Aluminium
- Red
- Black
- Yellow

WE90	WE90
WE91	WE91
WE93	WE93
WE95	WE95

- Aluminium - with engraving
- Red - with engraving
- Black - with engraving
- Yellow - with engraving

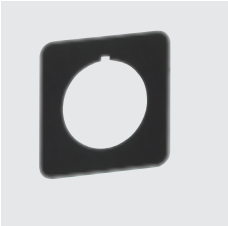
WE90000	WE90000
WE91000	WE91000
WE93000	WE93000
WE95000	WE95000

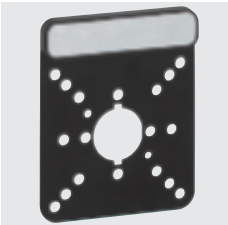
For version with engraving see form (p. 277)

Separate cam switches

Standard engraving (p. 276)

▶ PLATES, DUTY LABELS AND FRAMES

PLATES	Cat. No.	
 UF36	For single hole mounting $\varnothing$ 30 Aluminium legend	
	☐ 48 ☒ Black plate ☒ Black plate - with engraving	Price list code UF36 UF36000
	☐ 64 ☒ Black plate ☒ Black plate - with engraving	UF38 UF38000
		UF36 UF36000

DUTY LABELS	Cat. No.	
 Q072	To be used with frame	
	☐ 48 ☐ 64 ☐ 72	Price list code Q048 Q064 Q072
	☐ Transparent insert (only for Q048) ☒ Aluminium insert (only for Q048)	IF7 IF9
		Q048 Q064 Q072

FRAMES	Cat. No.	
 CQ64	Price list code	
	Frame ☐ 48 ☐ 64 ☐ 72 ☐ 96	CQ48 CQ64 CQ72 CQ96
		CQ48 CQ64 CQ72 CQ96
		CQ48 CQ64 CQ72 CQ96

Separate cam switches

Standard engraving (p. 276)
Dimensions (p. 255)

► PLATES + FRAMES

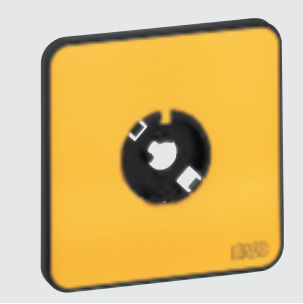
	Plate + frame	Cat. No.	
		Price list code	
	□ 48		
	● Aluminium	Q48	Q48
	● Red	Q41	Q41
	● Black	Q43	Q43
	● Yellow	Q45	Q45
	□ 64		
	● Aluminium	Q64	Q64
	● Red	Q61	Q61
	● Black	Q63	Q63
	● Yellow	Q65	Q65
	□ 72		
	● Aluminium	Q72	Q72
	● Red	Q71	Q71
	● Black	Q73	Q73
	● Yellow	Q75	Q75
	□ 96		
	● Aluminium	Q96	Q96
	● Red	Q91	Q91
	● Black	Q93	Q93
	● Yellow	Q95	Q95

	Plate + frame + duty label	Cat. No.	
	With aluminium duty label		
		Price list code	
	□ 48		
	● Aluminium	Q480	Q480
	● Red	Q410	Q410
	● Black	Q430	Q430
	● Yellow	Q450	Q450
	□ 64		
	● Aluminium	Q640	Q640
	● Red	Q610	Q610
	● Black	Q630	Q630
	● Yellow	Q650	Q650
	□ 72		
	● Aluminium	Q720	Q720
	● Red	Q710	Q710
	● Black	Q730	Q730
	● Yellow	Q750	Q750

Separate cam switches

► PLATE + FRAME + DUTY LABEL

Ø 22 MOUNTING

Frame + legend plate

Cat. No.



N480

With aluminium duty label
 Plate and frame for single hole
 mounting Ø 22 presentation
 Max. panel thickness: 1.5 mm

Price list code

□ 48

● Aluminium

N480

N480

► TERMINAL COVERS

Cat. No.



CB4

For PR 12 to PR 160
 Insulating material for switch with 4 contacts max.
 Transparent material for PR 12 to PR 63
 Opaque material for PR 125-160

With rear mounting the terminal cover is fixed
 in S mode (p. 244) with:

- for PR 12 to PR 26: 2 screws
- for PR 40 to PR 160: 2 screws

With front mounting, the terminal cover is fixed
 in E mode (p. 240) with:

- for PR 12: 2 screws supplied
- for PR 17 to PR 63: 2 special nuts supplied
- for PR 125 and PR 160: 2 H4 nuts supplied

Price list code

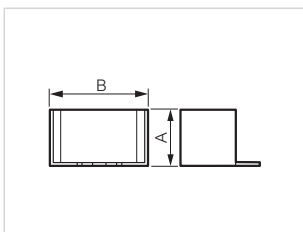
PR 12	CB4N	CB4
PR 17	CB3D	CB3
PR 21	CB3F	CB3
PR 26	CB3E	CB3
PR 40	CB5H	CB5
PR 63	CB5I	CB5
PR 125-160	CB6L	CB6

Terminal covers

PR 40-63
 Pair of terminal covers in insulating material
 providing IP 20 protection of 2 electrical
 contacts located on 1 coil
 (provide the same number of
 pairs of terminal covers as coils)
 Clip into place after electrical connection of
 the terminals

CB8

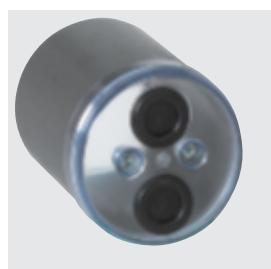
CB8



Separate cam switches

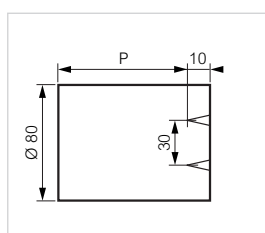
► REAR PROTECTIVE SHROUD

Cat. No.

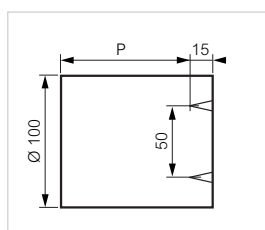


CA41N *

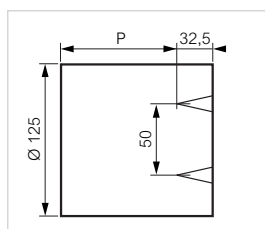
* Length of shroud to be stated when ordering the cam switch only



PR 12



PR 17 to PR 26



PR 40 to PR 63

For PR 12 to PR 63

Composition:

- Grey insulating body
- Transparent insulating cover
- IP 40 - protection against direct finger contact
- IP 55 - protection against splashing water
- PR 12 - the shroud fits on 1 standard type E switch
- PR 17 to PR 63 - the shroud must be specified when ordering the switch (rear mounting on a special plate)

Price list code

PR 12 - 1 to 12 contacts

IP 40	CA41N	CA41N
IP 55	CAE41N	CAE41N

PR 12 - 13 to 24 contacts

IP 40	CA42N	CA42N
IP 55	CAE42N	CAE42N

PR 17-21 -1 to 12 contacts

IP 40	CA10D	CA10D
IP 55	CAE10D	CAE10D

PR 17-21 - 13 to 24 contacts

IP 40	CA11D	CA11D
IP 55	CAE11D	CAE11D

PR 26 - 1 to 12 contacts

IP 40	CA20F	CA20F
IP 55	CAE20F	CAE20F

PR 26 -13 to 24 contacts

IP 40	CA21F	CA21F
IP 55	CAE21F	CAE21F

PR 40-63 -1 to 12 contacts

IP 40	CA30I	CA30I
IP 55	CAE30I	CAE30I

PR 40-63 - 13 to 24 contacts

IP 40	CA31I	CA31I
IP 55	CAE31I	CAE31I

Plastic cable gland

Pg 16 for PR 12 to PR 21	CM14P	CM14P
Pg 21 for PR 26	CM18P	CM18P
Pg 29 for PR 40-63	CM24P	CM24P

Number of contacts	Depth (P)					
	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63
1-2	42	45	45	48	74	74
3-4	52	57	57	63	94	94
5-6	62	69	69	78	114	114
7-8	72	81	81	93	134	134
9-10	82	93	93	108	154	154
11-12	92	105	105	123	174	174
13-14	128	117	117	138		
15-16	138	129	129	153		
17-18	148	141	141	168		
19-20	158	153	153	183		
21-22	168	165	165	198		
23-24	178	177	177	213		

Separate cam switches

To order engravings, fill in the form (p. 277)

To price a switch with customised engraving, please contact us

► ENGRAVING

STANDARD ENGRAVING

These are engraving according to switching angle (as illustrated plates on p. 206)

These standard engravings are not invoiced, the charge is included in the price for the plate or duty label

CUSTOMISED ENGRAVING

These are all the alphanumeric engravings (excluding logos, drawings, symbols) which are defined by the following parameters

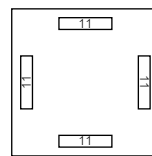
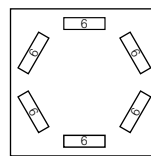
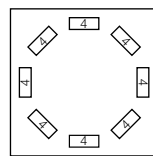
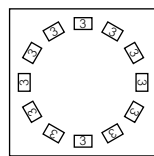
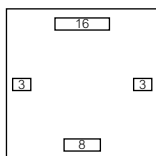
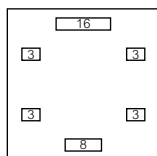
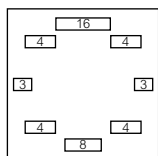
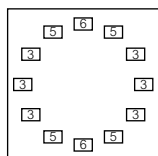
For square legend plates: type WE40 to WE95 (p. 271)

type UF36, UF38 (p. 274)

For square legend plates: type Q41 to Q96 (p. 271)



- Maximum number of alphanumeric characters per position:



- Character height:

□ 48 : 3 mm; □ 64: 4 mm; □ 72: 4.5 mm; □ 96: 6 mm

The engraving is laser-etched or silk-screen printed according to type

- Colour of engraving:

Black on aluminium and yellow plate

White on red and black plate

For duty labels: type Q048, Q064 and Q072 (p. 272)

- Maximum number of characters:

per line: 13

Maximum number of lines: 2

- Character height

□ 48 : 3 mm ; □ 64: 4 mm ; □ 72: 4.5 mm

- Colour of engraving:

Black on aluminium plate

Special engravings:

These are engravings not covered by the technical parameters used for creating standard engravings and which therefore require a special execution.

This applies to all alphanumeric engravings outside the limits defined above, and also logos, drawings or symbols



Request form for specific cam switch

Fill in one form for each type of switch

APPLICATION

- ☐ Load switching
☐ resistive ☐ electromagnetic

Rated voltage AC/DC

Rated current A

- ☐ Control of motors
☐ Starting/Switching off a running motor

- ☐ Reverse direction of rotation

Motor rating A/CV/kW

DIAGRAM

(Fill in the grid below using the appropriate symbols)

- ☒ Closed contact
- ☒ Closed contact, 2 positions without cut-off
- ☒ Overlapping: second contact closes before first contact opens (not possible with 30° switching angle)
- ☒ Impulse contact, closes momentarily when switching from one position to next
- ☒ Spring return

Contact Nos.	Position No.												Terminals connection + links
	1	2	3	4	5	6	7	8	9	10	11	12	
1-2													○ 1 3 ○
3-4													○ 2 4 ○
5-6													○ 5 7 ○
7-8													○ 6 8 ○
9-10													○ 9 11 ○
11-12													○ 10 12 ○
13-14													○ 13 15 ○
15-16													○ 14 16 ○
17-18													○ 17 19 ○
19-20													○ 18 20 ○
21-22													○ 21 23 ○
23-24													○ 22 24 ○
25-26													○ 25 27 ○
27-28													○ 26 28 ○
29-30													○ 29 31 ○
31-32													○ 30 32 ○
33-34													○ 33 35 ○
35-36													○ 34 36 ○
37-38													○ 37 39 ○
39-40													○ 38 40 ○
41-42													○ 41 43 ○
43-44													○ 42 44 ○
45-46													○ 45 47 ○
47-48													○ 46 48 ○

SWITCHING ANGLE

- ☐ 90° ☐ 60° ☐ 45° ☐ 30°

(indicate positions in boxes)

Blocking-off between and position

One-way rotation: ☐ right ☐ left

MOUNTING

- ☐ Front ☐ One-hole
☐ Rear ☐ DIN rail
☐ Enclosure

STANDARD PRESENTATION

- ☐ Handle: ☐ small
☐ medium
☐ large
☐ Lever: ☐ small ☐ large
 Colour: ☐ grey ☐ black
☐ red
☐ Selector switch style handle
☐ With key
 Choice of key: ☐ 455 ☐ 1424 A
☐ other.....

LEGEND PLATE AND ENGRAVING

Choice of legend plate:

- ☐ 48 ☐ 64 ☐ 72 ☐ 96
☐ Alu ☐ Black ☐ Red ☐ Yellow

SWITCHING ANGLE

- ☐ Engraving: (use opposite box to specify your engravings)
☐ linear
☐ polygonal

- ☐ Duty label
 (2 x 13 characters) :

.....

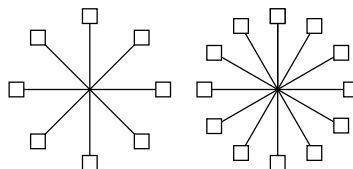
PADLOCKABLE PRESENTATION

- Colour: ☐ yellow/red ☐ grey
 Size: ☐ 48 ☐ 72 ☐ 96

OPTIONS

- ☐ Foolproof handle
☐ IP rating: ☐ IP 40 (standard)
☐ IP 55
☐ IP 65
☐ Terminal covers
☐ Tropicalised version

MARKING OF POSITIONS



YOUR DETAILS

Company:

.....

Name and surname:

.....

Address:

.....

E-mail :

Tel:

Fax:

COMMENTS

YOUR ENGRAVINGS

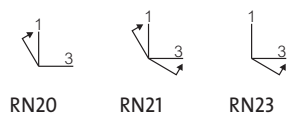
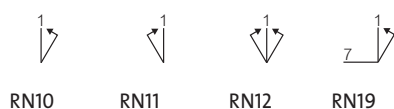
Separate cam switches

Please specify the spring return on the form (p. 277)

► AUTOMATIC SPRING RETURN

REDUCED TYPE RN

Cat. No.



For PR 12

This device makes it possible to incorporate spring returns without extra charge and without increasing switch dimension
Number of spring return contacts per position: max. 2

Price list code

PR 12

-

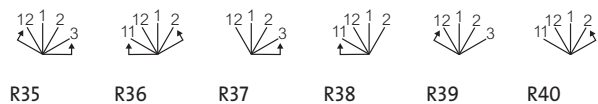
RNxx⁽¹⁾

(1) Complete according to spring return chosen opposite

NORMAL TYPE R

Cat. No.

30°



For PR 12 to PR 63

This device makes it possible to incorporate spring returns without increasing switch dimensions

The maximum number of contacts per spring return position varies according to the rating

The spring return positions are always at 30°

The switching angle is at 30°-45°-90° (for PR 12 to PR 26)

The switching angle is at 45°-90° (for PR 40 and PR 63)

45°



Price list code

R10 R11 R12 R13 R14 R15

PR 12 (4 spring return contacts)

Y652

Rxx⁽¹⁾

PR 17 (4 spring return contacts)

Y639

Rxx⁽¹⁾

PR 21 (4 spring return contacts)

Y639

Rxx⁽¹⁾

PR 26 (4 spring return contacts)

Y639

Rxx⁽¹⁾

PR 40 (2 spring return contacts)

Y640

Rxx⁽¹⁾

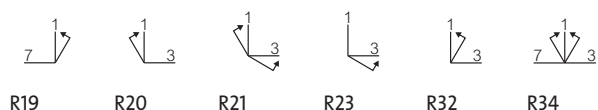
PR 63 (2 spring return contacts)

Y640

Rxx⁽¹⁾

90°

(1) Complete according to spring return chosen opposite

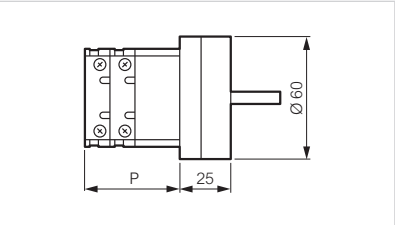


R19 R20 R21 R23 R32 R34

Separate cam switches

Please specify the spring return on the form (p. 277)

► AUTOMATIC SPRING RETURN (CONTINUED)

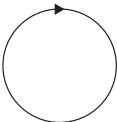
SPECIAL REINFORCED TYPE RS			Cat. No.
 30°	 45°	 60°	 90°
 30°	 45°	 60°	 90°
 30°	 45°	 60°	 90°
 30°	 45°	 30°	 45°
			
E and S mounting methods (see p. 245)			

For PR 12 to PR 26
For E or S mounting
Modified sizing
Enables greater number of spring return contacts per position than with standard “R” spring return
Spring returns possible with pass-through contact

Price list code

PR 12 to PR 26	Y626	RS
----------------	------	----

► MISCELLANEOUS VERSIONS

ONE-WAY ROTATION (SRO)		Cat. No.
 SRO to the right	For PR 12 to PR 160 This device makes it impossible to turn the handle in the opposite direction to the one stipulated Available for switching angles 90°, 60° and 45° No change to switch dimensions	
 SRO to the left		
	Price list code	
	PR 12	Y649 (1)
	PR 17 to PR 26	Y642 (1)
	PR 40 to PR 160	Y643 (1)

(1) No reference, write “direction of rotation to xxx” in the designation

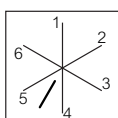
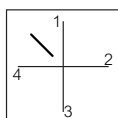
Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

BLOCKING-OFF BETWEEN 2 POSITIONS

Cat. No.

Examples



For PR 12 to PR 160

This device prevents the switch being turned between 2 consecutive positions.

Indicate which positions (see form on p. 277)

Available for switching angles 90° and 60°

No change to switch dimensions

Not compatible with one-way rotation device (SRO)

	Price list code	
PR 12	-	(1)
PR 17 to PR 26	Y634	(1)
PR 40 to PR 160	Y635	(1)

(1) No reference, write “blocking-off between X and X” in the designation

TROPICALISED VERSION

Cat. No.

For PR 12 to PR 160

(standard on the PR 12)

The cost of this version is calculated
as a fixed charge per switch
and a variable extra charge
(multiplied by the number of contacts)

	Price list code	
PR 12	-	-
PR 17	Y 562 + (Y563 x no. of contacts)	(1)
PR 21	Y 564 + (Y565 x no. of contacts)	(1)
PR 26	Y 566 + (Y567 x no. of contacts)	(1)
PR 40	Y 570 + (Y571 x no. of contacts)	(1)
PR 63	Y 572 + (Y573 x no. of contacts)	(1)
PR 125	Y 578 + (Y579 x no. of contacts)	(1)
PR 160	Y 580 + (Y581 x no. of contacts)	(1)

(1) No reference, write “tropicalised” in the designation

FASTON TERMINALS

Cat. No.

For PR 12 to PR 26

Terminals 6.35 (and/or 2 x 2.8 for PR 12)

Multiply the extra charge by the
number of terminals

	Price list code	
PR 12	Y653 (per terminal)	(1)
PR 17 to PR 26	Y620 (per terminal)	(1)

(1) No reference, write out the text and the terminal positions in full in the designation

Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

REINFORCED IP RATING

Cat. No.

Standard IP rating - IP 40

Price list code

IP 55

For PR 12	Y651	(1)
For PR 17 to PR 160	Y627	(1)
For PR 40-63 (in BCF enclosure)	Y647	(1)

IP 65

For PR 12 to PR 160	Y632	(1)
For PR 12 (in BPR enclosure)	Y632	(1)
For PR 12 to PR 26 (in BC enclosure)	Y663	(1)
For PR 12 to PR 160 (with padlockable presentation)	Y661	(1)
For PR 12 to PR 160 (clutch drive + frame)	Y662	(1)
For PR 12 (ø 22 mounting)	Y667	(1)

(1) No reference, write:
"IPxx" in the designation

SPECIAL SHAFTS

Cat. No.

Shaft with foolproof profile

Price list code

For PR 12 (E-EZ mounting)		
≤ 12 contacts foolproofed shaft	-	D
For PR 17 to PR 160 and PR 12 (other mounting than those below)	Y613	D

Special dimension shaft

Standard dimension		
- PR 12 to PR 26 = 26 mm		
- PR 40 to PR 160 = 27 mm		
For PR 12 to PR 160	Y617	(1)

(1) No reference, write:
"shaft dimension xx"
(size of projection in mm)

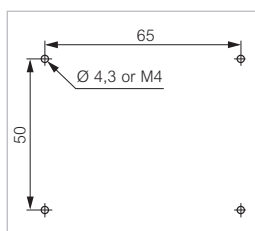
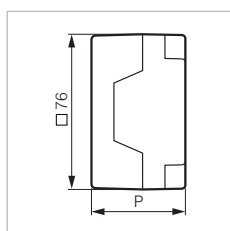
Separate cam switches

► EMPTY ENCLOSURES

TYPE BPR

For PR12*

Cat. No.



Technical specifications (p. 260)
Delivered with blank aluminium plate
Possibility to use a padlockable presentation

Price list code

For PR 12 -1-2 contacts
For PR 12 -3-4 contacts

BPR01
BPR02

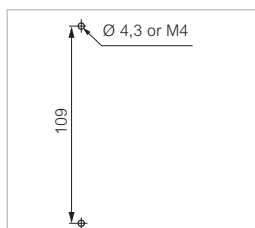
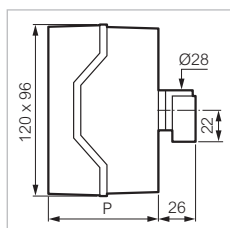
BPR01
BPR02

P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

TYPE BC

Cat. No.



Technical specifications (p. 261)
With a 64 blank aluminium plate and a black handle
(see p. 261 for enclosure customisation)
for PR 12* to PR 26 mounting, bare shaft version

Price list code

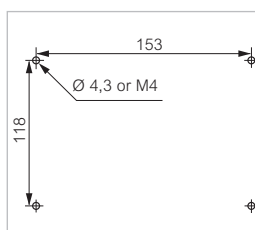
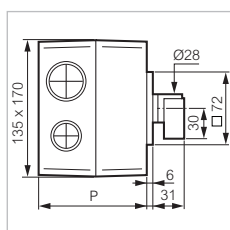
For PR 12 -1-2 contacts
For PR 12 -3-6 contacts
For PR 12 -7-10 contacts
For PR 17-21 -1-2 contacts
For PR 17-21 -3-6 contacts
For PR 17-21 -7-10 contacts
For PR 26 -1-2 contacts
For PR 26 -3-4 contacts
For PR 26 -5-6 contacts
For PR 26 -7-8 contacts

BC05Q3
BC06Q3
BC07Q3
BC11Q3
BC12Q3
BC13Q3
BC14Q3
BC15Q3
BC16Q3
BC13Q3

* Switch version with terminals reversed

TYPE BCF

Cat. No.



For PR40-63
Technical specifications (p. 262)
Delivered with a complete
72-96 plate and frame
or padlockable presentation

Price list code

For PR 40-63 -1-2 contacts
For PR 40-63 -3-4 contacts
For PR 40-63 -5-6 contacts
For PR 40-63 -7-8 contacts

BCF140
BCF240
BCF340
BCF440

P *	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth

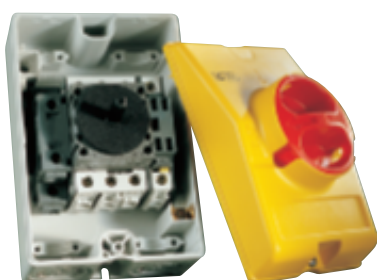
Switch disconnectors

A modular and flexible range



Contact gap
7 mm
(norm >5.5 mm)

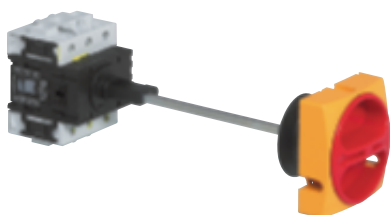
**Reversible
terminal feature**



► IN ENCLOSURE

- Degree of protection: up to IP 66
- For 25A to 100A size switches (see lthe (A) p. 306)
- Cable entries with pre-formed knockouts
- Tamper-proof cover with padlockable handle
- Recessed area for optional plate
- A wide choice of associated contact blocks and enclosures versions available

Pages 289 and 295



► WITH CLUTCH DRIVE

- Metal cuttable shafts
- With or without door interlock system
- Short or long metal shaft available

Pages 288 and 293

Complete switch disconnectors 20 A

IP 40 as standard, IP 65 on request

 Characteristics (p. 306)

FRONT MOUNTING

PADLOCKABLE PRESENTATION	Cat. No.
--------------------------	----------

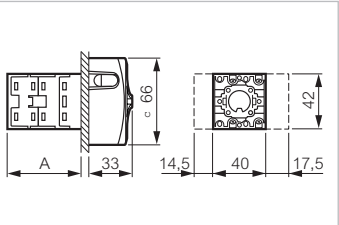


172921

20 A - non-reversible terminals

3P	172901
3P+NC/NO(1)	172911
4P	172921

(1) Padlock with $\varnothing$ 6 to 8 mm



Dimensions
A: 46 (3P/4P)
56 (3P+NC/NO)

ACCESSORIES	Cat. No.
-------------	----------



172945

IP65 seal kit For front mounting with screws	172945
Terminal covers For front mounting with screws	172965

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request

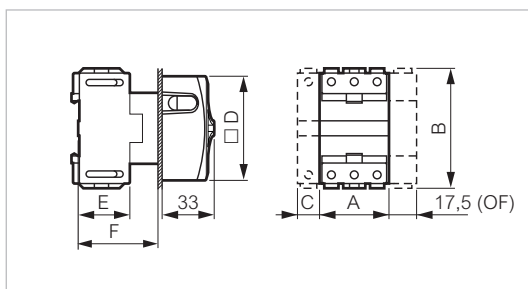


Characteristics (p. 306)

FRONT MOUNTING

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Red padlockable handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect



172001

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 36
F: 50

25 A

3P
3P+NC/NO ⁽¹⁾
4P neutral on left

172001

172011

172021

32 A

3P
4P neutral on left

172101

172121



172201

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 50.3
F: 60

50 A

3P
4P neutral on left

172201

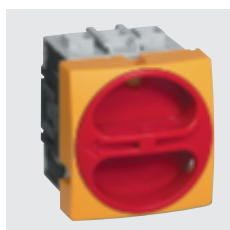
172221

63 A

3P
4P neutral on left

172301

172321



172401

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 63.8
F: 70

80 A

3P
4P neutral on left

172401

172421

100 A

3P

172501

(1) Padlock: ø 6 to 8 mm

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request

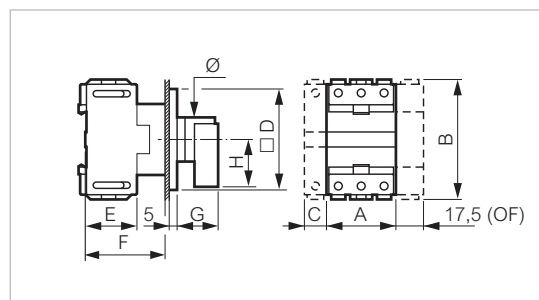


Characteristics (p. 306)

FRONT MOUNTING

WITH PLATE, FRAME AND HANDLE

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Red handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect



172002

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 64
E: 36
F: 50
G: 26
H: 22
Ø: 28

25 A

3P

172002

32 A

3P

172102



172202

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 72
E: 50.3
F: 60
G: 26
H: 30
Ø: 28

50 A

3P

172202

63 A

3P

172302



172402

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 96
E: 63.8
F: 70
G: 31
H: 34
Ø: 42

80 A

3P

172402

100 A

3P

172502

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request

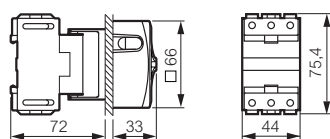


Characteristics (p. 306)

► FRONT MOUNTING

PADLOCKABLE PRESENTATION Ø 22 SINGLE-HOLE MOUNTING

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Red handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect

25 A

3P

172003

32 A

3P

172103



172003

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request

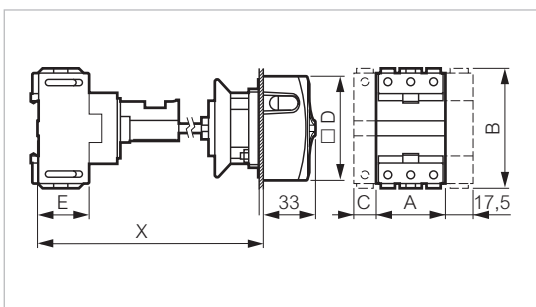


Characteristics (p. 306)

► REAR MOUNTING WITH CLUTCH DRIVE

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and door interlock
Double break type load switching
Red handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect

25 A

3P (short shaft)

165009

32A

3P (short shaft)

165109

50 A

3P (short shaft)

165209

63 A

3P (short shaft)

165309

80 A

3P (long shaft)

165409

100 A

3P (long shaft)

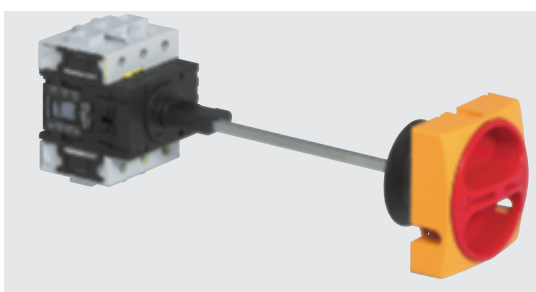
165509

25 and 32 A dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 31.5
X: 125 to 250 (short shaft)
250 to 400 (long shaft)

50 and 63 A dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 42.2
X: 135 to 260 (short shaft)
260 to 410 (long shaft)



165409

80 and 100 A dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 52.6
X: 145 to 270 (short shaft)
270 to 420 (long shaft)

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
and IP 66 on enclosure version with integral handle version

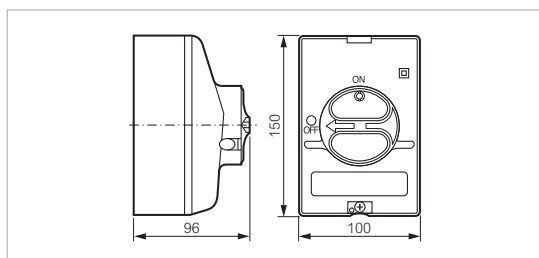


Characteristics (p. 306)

► ENCLOSURES

INTEGRAL PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and door interlock
Double break type load switching
Red handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3

IP 66 - IK 07

20 A

3P

3P+NC/NO ⁽¹⁾

4P

172961

172971

172981

25 A

3P

3P+NC/NO ⁽¹⁾

172061

172071

32 A

3P

172161



172061

PADLOCKABLE PRESENTATION

IP 40 ⁽²⁾

50 A

3P

172261

63 A

3P

172361

80 A

3P

172461

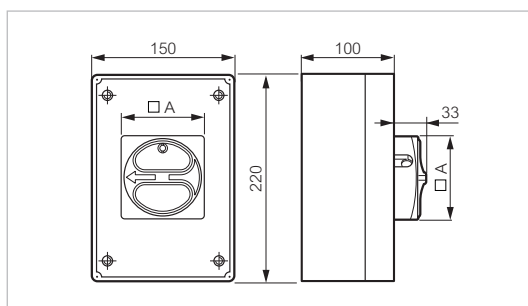
100 A

3P

172561

⁽¹⁾ Padlock: Ø 6 to 8 mm

⁽²⁾ IP 65 seal kit ref. 172267 (50 to 63 A)
172277 (80 to 100 A)



50 and 63 A dimensions

A: □ 66

80 and 100 A dimensions

A: □ 86



172261

Complete switch disconnectors 20 A

IP 40 as standard, IP 65 on request
Grey presentation

 [Characteristics \(p. 306\)](#)

FRONT MOUNTING

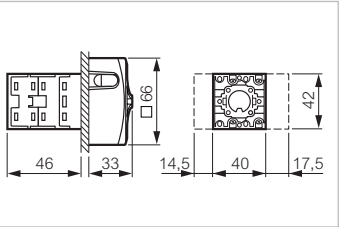
PADLOCKABLE PRESENTATION	Cat. No.
--------------------------	----------



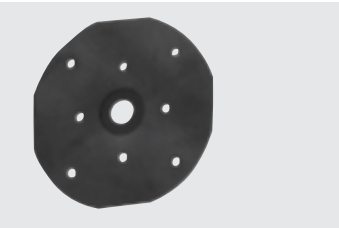
174901

20 A - non-reversible terminals
3P

174901



ACCESSORIES	Cat. No.
-------------	----------



172945

IP 65 seal kit
For front mounting with screws

172945

Terminal covers
For front mounting with screws

172965

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

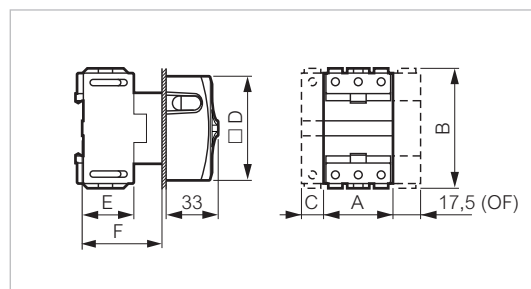
FRONT MOUNTING



Characteristics (p. 306)

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Grey padlockable handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect

25 A

3P

174001

32 A

3P

174101

50 A

3P

174201

63 A

3P

174301

80 A

3P

174401

100 A

3P

174501

(1) Padlock: $\varnothing$ 6 to 8 mm



174001

Dimensions

A: 44
B: 75.4
C: 14.5
D: $\square$ 66
E: 36
F: 50



174301

Dimensions

A: 53.6
B: 85
C: 17.9
D: $\square$ 66
E: 50.3
F: 60



174401

Dimensions

A: 71.8
B: 93
C: 26.8
D: $\square$ 86
E: 63.8
F: 70

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

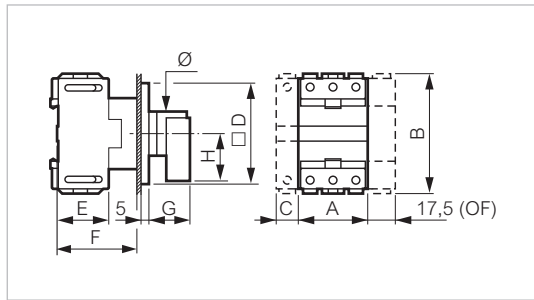


Characteristics (p. 306)

FRONT MOUNTING

WITH PLATE, FRAME AND HANDLE

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Black handle on aluminium plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
UL - cUL approved – Suitable as motor disconnect

25 A

3P

174002

32 A

3P

174102

50 A

3P

174202

63 A

3P

174302

80 A

3P

174402

100 A

3P

174502



174002

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 64
E: 36
F: 50
G: 26
H: 22
Ø: 28



174202

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 72
E: 50.3
F: 60
G: 26
H: 30
Ø: 28



174402

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 96
E: 63.8
F: 70
G: 31
H: 34
Ø: 42

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

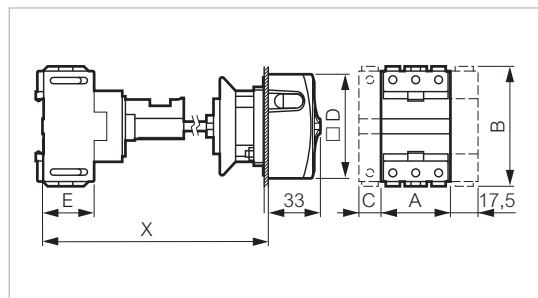
► REAR MOUNTING



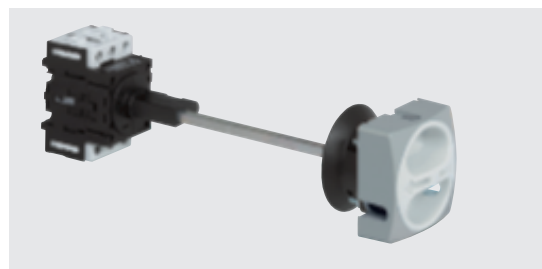
Characteristics (p. 306)

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and door interlock
Double break type load switching
Grey padlockable handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect



165009

25 A

3P (short shaft)

168009

32A

3P (short shaft)

168109

25 and 32 A dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 31.5
X: 125 to 250 (short shaft)
250 to 400 (long shaft)

50 and 63 A dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 42.2
X: 135 to 260 (short shaft)
260 to 410 (long shaft)

50 A

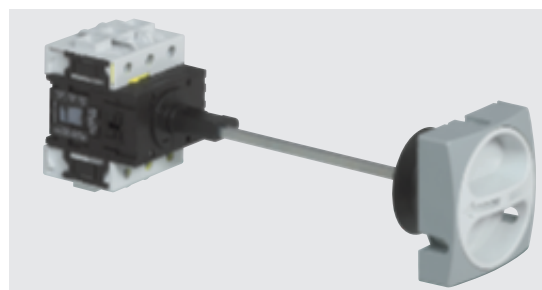
3P (short shaft)

168209

63 A

3P (short shaft)

168309



165409

80 A

3P (long shaft)

168409

100 A

3P (long shaft)

168509

80 and 100 A dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 42.6
X: 145 to 270 (short shaft)
270 to 420 (long shaft)

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

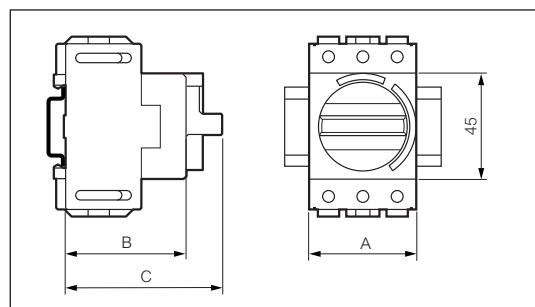


Characteristics (p. 306)

REAR MOUNTING

MODULAR IN-PANEL PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Black handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect

25 A

3P

174005

32 A

3P

174105

50 A

3P

174205

63 A

3P

174305

80 A

3P

174405

100 A

3P

174505



174005

Dimensions

A: 44
B: 53
C: 79



174205

Dimensions

A: 53.6
B: 63
C: 89



174405

Dimensions

A: 71.8
B: 73
C: 99

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request and
IP66 on enclosure version with integral handle version
Grey presentation

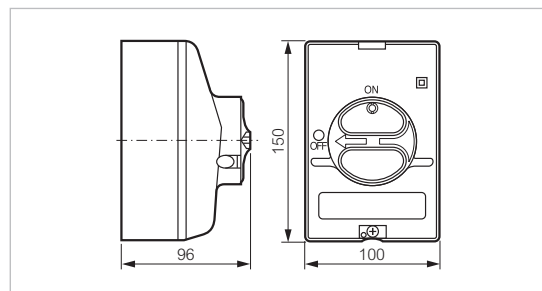
► ENCLOSURES



Characteristics (p. 306)

INTEGRAL PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and
door interlock
Double break type load switching
Grey padlockable handle
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3

IP 66 - IK 07

25 A
3P

174061

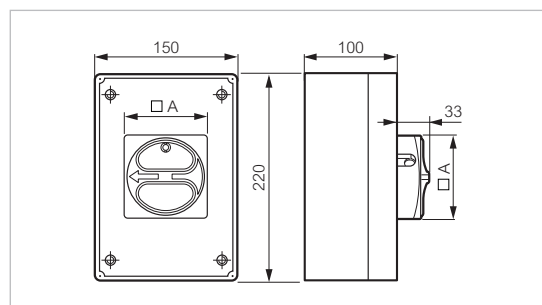
32 A
3P

174161



174061

PADLOCKABLE PRESENTATION



IP 40 (1)

50 A
3P

174261

63 A
3P

174361

80 A
3P

174461

100 A
3P

174561

(1) IP 65 with seal ref. 172267 (50 to 63 A)
172277 (80 to 100 A)



174261

50 and 63 A dimensions

A: □ 66

80 and 100 A dimensions

A: □ 86

Separate switch disconnectors - 25 and 32 A



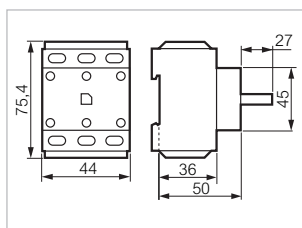
Characteristics (p. 306)

► BLOCKS

Cat. No.



172000



3-pole switch body without presentation

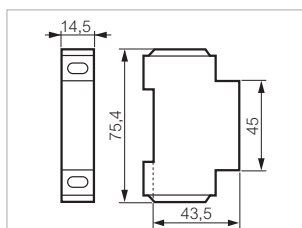
25 A
32 A

172000
172100



172065

172185



Additional pole (for use in enclosure only)

25 A
32 A

172075
172175

Additional pole without rear screw (Rear mounting only)

32 A

172174

Neutral pole

25 A
32 A

172065
172165

Junction block

⊥ or N

172185

Auxiliary contact

NC/NO

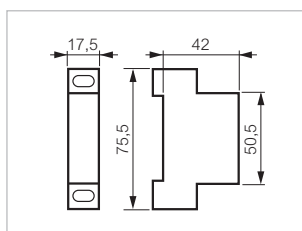
172179

1 pole early break

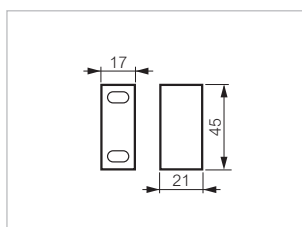
172195



172179



172195



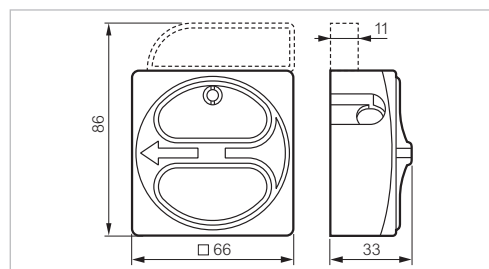
Separate switch disconnectors - 25 and 32 A

PRESENTATION



Characteristics (p. 306)

Cat. No.



Padlockable presentation

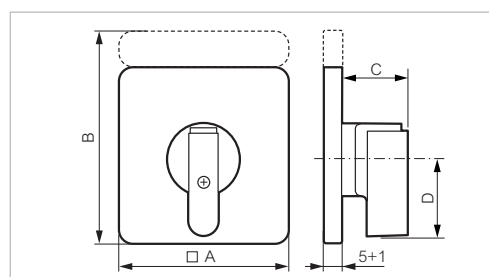
Padlock with $\varnothing 6$ to 8 mm

- ☐ 66 - Yellow/Red
- ☐ 66 - Grey
- ☐ 66 - $\varnothing 22$ single-hole-mounting - Yellow/Red

172601
174601
172603



172601



With plate, frame and handle

- ☐ 64 - Yellow/Red
- ☐ 48 - $\varnothing 22$ single-hole-mounting - Yellow/Red

172602

172604



172602

Dim. Ref. 172 602

A: ☐ 64

B: 80

Dim. ref. 172 604

A: ☐ 48

B: 65

Separate switch disconnectors - 25 and 32 A



Characteristics (p. 306)

► EMPTY ENCLOSURES

PADLOCKABLE PRESENTATION

Cat. No.



172399

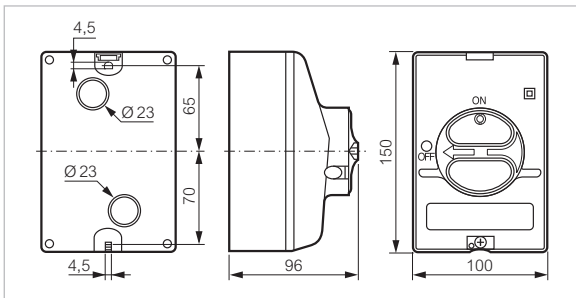
Dimensions 150 x 100 x 96 mm
Supplied with padlockable handle,
weatherproof seal and relay terminal
For 3 and 4-pole switches
with and without NC/NO

IP66-IK07

Grey base - yellow cover - red handle
Grey base - grey cover - grey handle

172399

174399

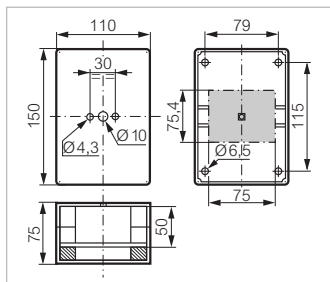


WITHOUT PRESENTATION

Cat. No.



172549



Grey - Up to 4 poles + auxiliary contact
150 x 110 x 75 mm

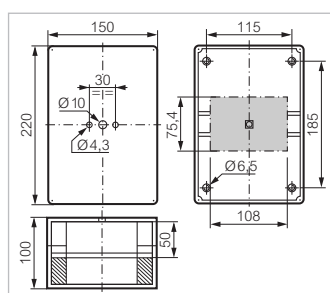
172549

PADLOCKABLE OR WITHOUT PRESENTATION

Cat. No.



172559



Grey - Up to 6 poles + auxiliary contact
220 x 150 x 100 mm

172559

Separate switch disconnectors - 25 and 32 A

► ACCESSORIES



Characteristics (p. 306)

Cat. No.



172167

Terminal covers

For 3-pole body switch

172167

For additional pole, neutral pole or junction block

172177

For auxiliary contact NC/NO (pair)

172189

For early break auxiliary contact

172199


174569

Connection terminal kit

Terminal connection for ground or neutral

174449

Self-adhesive plates (for enclosures)

Blank

174599

Engraved INTER PRINCIPAL

174559

Engraved MAIN SWITCH

174569


174189

Duty labels

Blank

172629

Engraved INTER PRINCIPAL

172639

Engraved MAIN SWITCH

172649


172177

Kit for clutch drive presentation

Short shaft without door interlock

174189

Long shaft without door interlock

174199

Without shaft and without door interlock

174179

Kit for door interlock

174249

IP 65 seal kit

For front mounting switches and enclosures

 Padlockable ☐ 66

 or plate and frame ☐ 64 or ☐ 72

172267

 Padlockable ☐ 86

 or plate and frame ☐ 96

172277

For rear mounting switches with clutch drive

 Padlockable ☐ 66

 or plate and frame ☐ 64 or ☐ 72

174259

 Padlockable ☐ 86

 or plate and frame ☐ 96

174269

Separate switch disconnectors - 50 and 63 A



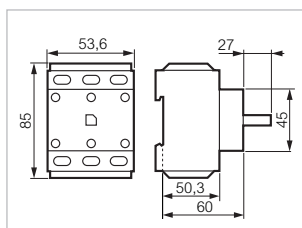
Characteristics (p. 306)

► BLOCKS

Cat. No.



172300



3-pole body switch without presentation

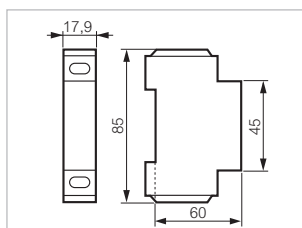
50 A
63 A

172200
172300



172375

172385



Additional pole (for use in enclosure only)

50 A
63 A

172275
172375

Neutral pole

50 A
63 A

172265
172365

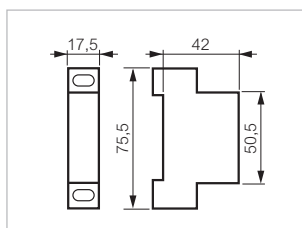
Junction block

⊥ or N

172385



172179



Auxiliary contact

NC/NO

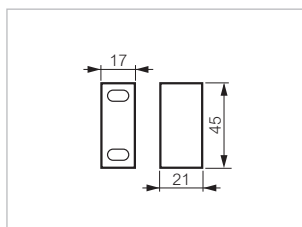
172179

1 pole early break

172395



172395



Separate switch disconnectors - 50 and 63 A

► PRESENTATION

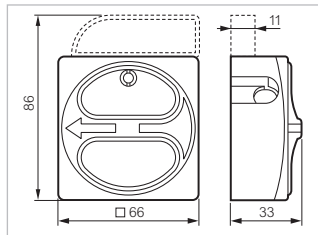


Characteristics (p. 306)

Cat. No.



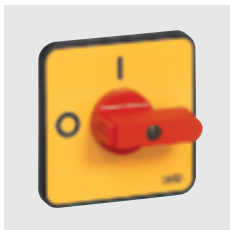
172061



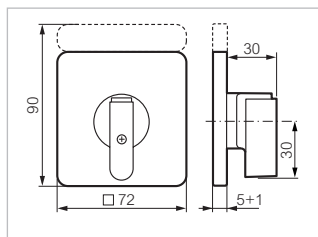
Padlockable presentation
Padlock: $\varnothing$ 6 to 8 mm

- ☐ 66 - Yellow/Red
- ☐ 66 - Grey

172601
174601



172612



With plate, frame and handle

- ☐ 72 - Yellow/Red

172612

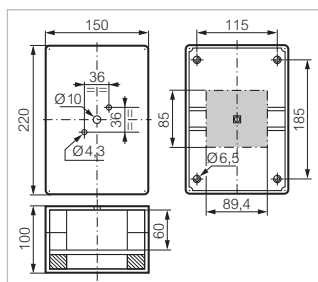
► EMPTY ENCLOSURES

WITHOUT PRESENTATION

Cat. No.



172569

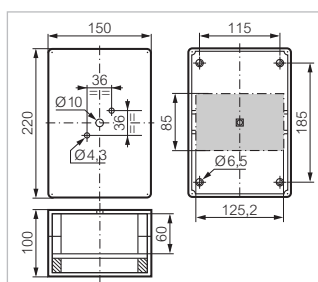


Grey - Up to 4 poles + auxiliary contact
220 x 150 x 100 mm

172569



172579



Grey - Up to 6 poles + auxiliary contact
220 x 150 x 100 mm

172579

Separate switch disconnectors - 50 and 63 A



Characteristics (p. 306)

► ACCESSORIES

Cat. No.



172367

Terminal covers

For 3-pole switch	172367
For additional pole, neutral pole or junction block	172377
For NC/NO auxiliary contact (pair)	172189
For early break auxiliary contact	172199



172649

Duty labels

Blank	172629
Engraved INTER PRINCIPAL	172639
Engraved MAIN SWITCH	172649



172267

Kit for clutch drive presentation

Short shaft without door interlock	174189
Long shaft without door interlock	174199
Without shaft and without door interlock	174179

kit for door interlock

174249

IP 65 seal kit

For front mounting switches and enclosures

Padlockable □ 66	
or plate and frame □ 64 or □ 72	172267
Padlockable □ 86	
or plate and frame □ 96	172277

For rear mounting with clutch drive

Padlockable □ 66	
or plate and frame □ 64 or □ 72	174259
Padlockable □ 86	
or plate and frame □ 96	174269

Separate switch disconnectors - 80 and 100 A

► BLOCKS

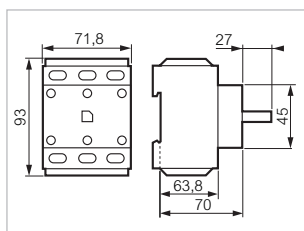


Characteristics (p. 306)

Cat. No.



172400



3-pole body switch without presentation

80 A
100 A

172400
172500



172475



172465

Additional pole
(for use in enclosure only)

80 A
100 A

172475
172575

Neutral pole

80 A
100 A

172465
172565

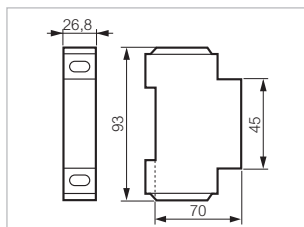
Junction block

⊥ or N

172585



172585



Auxiliary contact

NC/NO

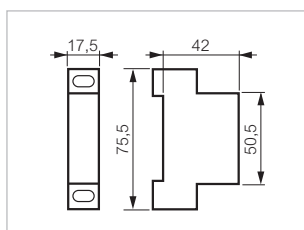
172179

1 pole early break

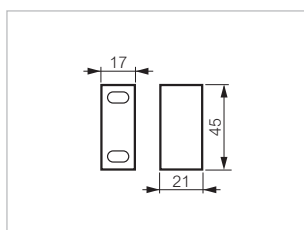
172595



172179



172595



Separate switch disconnectors - 80 and 100 A



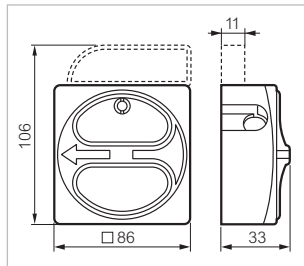
Characteristics (p. 306)

► PRESENTATION

Cat. No.



172621



Padlockable presentation

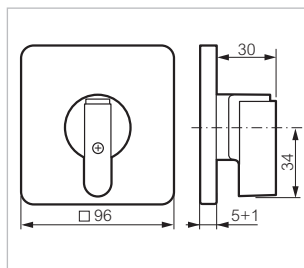
Padlock: $\varnothing$ 6 to 8 mm

- ☐ 86 - Yellow/Red
- ☐ 86 - Grey

172621
174621



172622



With plate, frame and handle

- ☐ 96 - Yellow/Red

172622

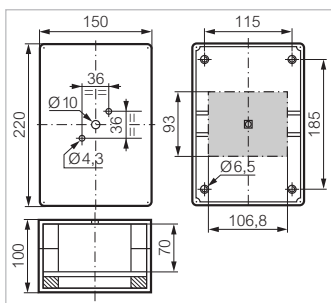
► EMPTY ENCLOSURES

WITHOUT PRESENTATION

Cat. No.



172589

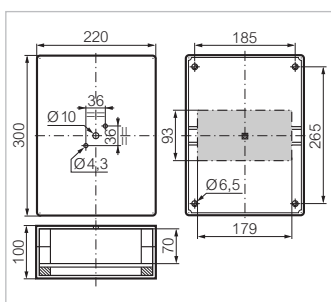


Grey - Up to 3 poles + auxiliary contact
220 x 150 x 100 mm

172589



172599



Grey - Up to 6 poles + auxiliary contact
300 x 200 x 100 mm

172599

Catalogue No. in bold: normally in stock at distribution outlets

Separate switch disconnectors - 80 and 100 A



Characteristics (p. 306)

► ACCESSORIES

		Cat. No.
 172567	Terminal covers	
	For 3-pole body switch	172567
	For additional pole, neutral pole or junction block	172577
	For NC/NO auxiliary contact (pair)	172189
	For early break auxiliary contact	172199
 172649	Duty labels	
	Blank	172629
	Engraved INTER PRINCIPAL	172639
	Engraved MAIN SWITCH	172649
 172267	Kit for clutch drive presentation	
	Short shaft without door interlock	174189
	Long shaft without door interlock	174199
	Without shaft and without door interlock	174179
	kit for door interlock	174249
	IP 65 seal kit	
	For front mounting switches and enclosures	
	Padlockable □ 66 or plate and frame □ 64 or □ 72	172267
	Padlockable □ 86 or plate and frame □ 96	172277
	For rear mounting with clutch drive	
	Padlockable □ 66 or plate and frame □ 64 or □ 72	174259
	Padlockable □ 86 or plate and frame □ 96	174269

Technical characteristics

► GENERAL

Characteristics	20 A	25 A	32 A	50 A	63 A	80 A	100 A
► Rated insulation voltage U_i (V)	690	690	690	690	690	690	690
► Conventional free air thermal current I_{th}							
Uninterrupted rated current I_u (A)	20	25	32	50	63	80	100
► Conventional enclosed thermal current I_{the} (A)	16	20	25	40	50	63	80
► Rated impulse withstand voltage (overvoltage category III - pollution degree 3) U_{imp} (kV)	4	6	6	6	6	6	6
► Rated operating current I_e (A) AC - 21 A/22 A Conform to IEC 60947-3	16	25	32	50	63	80	100
► Rated operating power (kW)							
AC 23 A 3 x 230 V	4	5.5	5.5	15	15	18.5	22
3 x 400 V	7.5	7.5	11	18.5	22	30	37
3 x 500 V	5.5	7.5	11	22	30	37	45
3 x 690 V	4	7.5	11	18.5	22	22	30
AC 3 3 x 230 V	3	4	4	7.5	11	15	18.5
3 x 400 V	4	5.5	7.5	15	18.5	22	30
3 x 500 V	5.5	5.5	7.5	15	22	30	37
3 x 690 V	3	5.5	7.5	15	18.5	18.5	22
► Make - break characteristics ($A_{eff}/400$ V)							
Rated make capacity	-	710	710	1270	1270	1970	1970
Rated break capacity	-	330	330	800	800	800	800
► Short circuit characteristics							
Rated short term withstand current I_{cw} ($A_{eff}/400$ V/1 s)	250	350	430	500	760	1100	1500
Rated short circuit make capacity I_{cm} (kA peak/400 V)	-	1	1	1.8	1.8	2.8	2.8
Short circuit current (kA $e_{eff}/400$ V)	6	10	10	10	10	10	10
with fuse gI/gG (A)	16	25	32	50	63	80	100
► Mechanical life AC 20 (million)	1	0.1	0.1	0.04	0.04	0.04	0.04
► Connections							
Stranded wire + (min/max) cap (mm ²)	0.75/2.5	0.75/6	0.75/6	1.5/16	1.5/16	2.5/35	2.5/35
Solid wire (mm ²)	4	10	10	25	25	50	50
► Storage temperature	-30°C to +70 °C						
► Operating temperature	- 30°C to +70 °C						
► Protection rating	rear of panel: IPxxB front of panel IP 40 in standard version (IP 65 on request)						
► Conformity to standards	IEC 60947-3, UL508, CSA22.2						
► Approvals	UL - cUL (USA - Canada) suitable as motor disconnect. CB certification						
► Climatic resistance Tropical atmosphere according to	IEC 60068-2-30 Cyclic damp heat						

Technical characteristics

AUXILIARY CONTACTS

Characteristics	20 A	25 A	32 A	50 A	63 A	80 A	100 A
▶ Rated insulation voltage U_i (V)	400	400	400	400	400	400	400
▶ Conventional free air thermal current I_{th}							
Continuous rated current I_u (A)	20	10	10	10	10	10	10
▶ Rated operating current I_e (A)							
AC 15							
230 V	6	6	6	6	6	6	6
400 V	-	4	4	4	4	4	4
▶ PROTECTION AGAINST SHORT CIRCUIT BY FUSE GG (A)	16	10	10	10	10	10	10
▶ Max. connection stranded wire (mm ²)	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5

ENCLOSURES

Characteristics	150x100x96	220x150x100	220x150x100	220x150x100	220x150x100	300x200x100
▶ Rating	20, 25 and 32 A 3P to 4P +NC/NO 20 A - 6P	25 and 32 A 6P and 6P +NC/NO	50 and 63 A 3P to 4P +NC/NO	50 and 63 A 6P and 6P +NC/NO	80 and 100 A 3P and 3P +NC/NO	80 et 100 A 4P to 6P +NC/NO
▶ Cable inputs	2 x 2 Pg 16 OR 2 x 2 M25	2 x 2 Pg 21	2 x 2 Pg 21	2 x 2 Pg 29	2 x 2 Pg 29	2 x 2 Pg 21 and 2 x 2 Pg 29
▶ Ø knockouts (mm)	Pg 16: 22.5 ISO M25: 25	28.5	28.5	37.5	37.5	37.5 and 28.5
▶ No. of knockouts (top and bottom)	2	2	2	2	2	4
▶ Panel mount	by 2 screws	by 4 screws				
▶ Base/cover assembly	by 1 screws self-tapping stainless steel	by 4 screws self-tapping stainless steel				by 6 screws self-tapping stainless steel
▶ Switch/base assembly	on 35 mm DIN rail (this rail is notched for positioning the switch)					
▶ Handles mounting	screwing on shaft pre-pierced cover					
▶ Insulation	Class II installed (provided that the correct insulation plugs are used with the enclosure)					
▶ Impact withstand	IK07					
▶ Flameproof	650°C					
▶ Protection rating	IP 66	IP 40 (IP 65 upon request)				
▶ Contact operating diagram	1/L1 3/L2 5/L3 0 2/T1 4/T2 6/T3 Switch disconnector 13 21 14 22 Auxiliary contacts 01 1/L1 - 2/T1 3/L2 - 4/T2 5/L3 - 6/T3 13 - 14 21 - 22					
▶ Switch padlocking	In general: up to 3 padlocks Ø 4 to 8 mm Switch with 1 auxiliary contact NC/NO: up to 3 padlocks Ø 6 to 8 mm Modular presentation: 1 padlock Ø 6 to 8 mm					

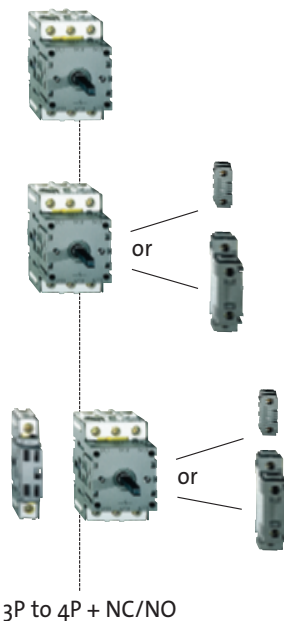
Enclosure selection guide

► 25 AND 32 A

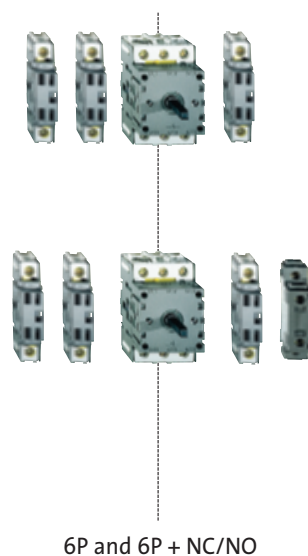


Example: switch disconnecter 32 A
Enclosed 4 poles,
padlockable presentation

Enclosure 150 x 100 x 96 mm



Enclosure 220 x 150 x 100 mm

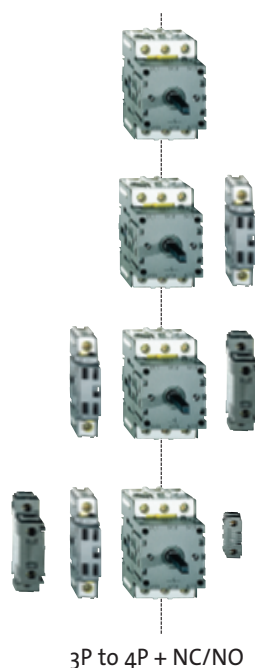


► 50 AND 63 A

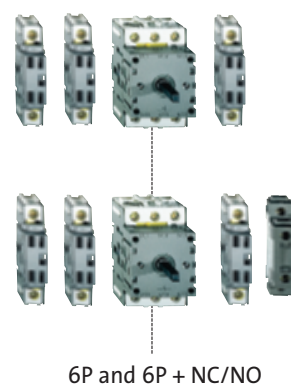


Example: switch disconnecter 50 A
Enclosed 6 poles,
Plate, frame and handle presentation

Enclosure 220 x 150 x 100mm



Enclosure 220 x 150 x 100 mm



Enclosure selection guide

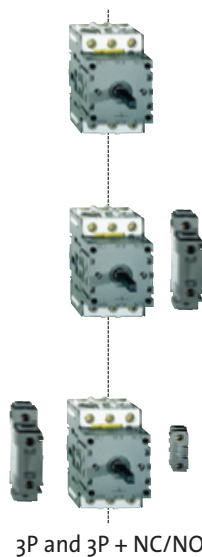
► 80 AND 100 A

Enclosure 220 x 150 x 100 mm

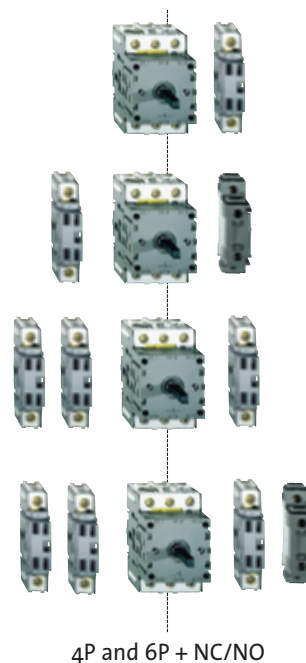
Enclosure 300 x 220 x 100 mm



Example: switch disconnect 100 A
Enclosed 4 poles,
padlockable presentation



3P and 3P + NC/NO



4P and 6P + NC/NO

LEGEND



basic 3-pole block



additional pole
additional neutral pole
junction block

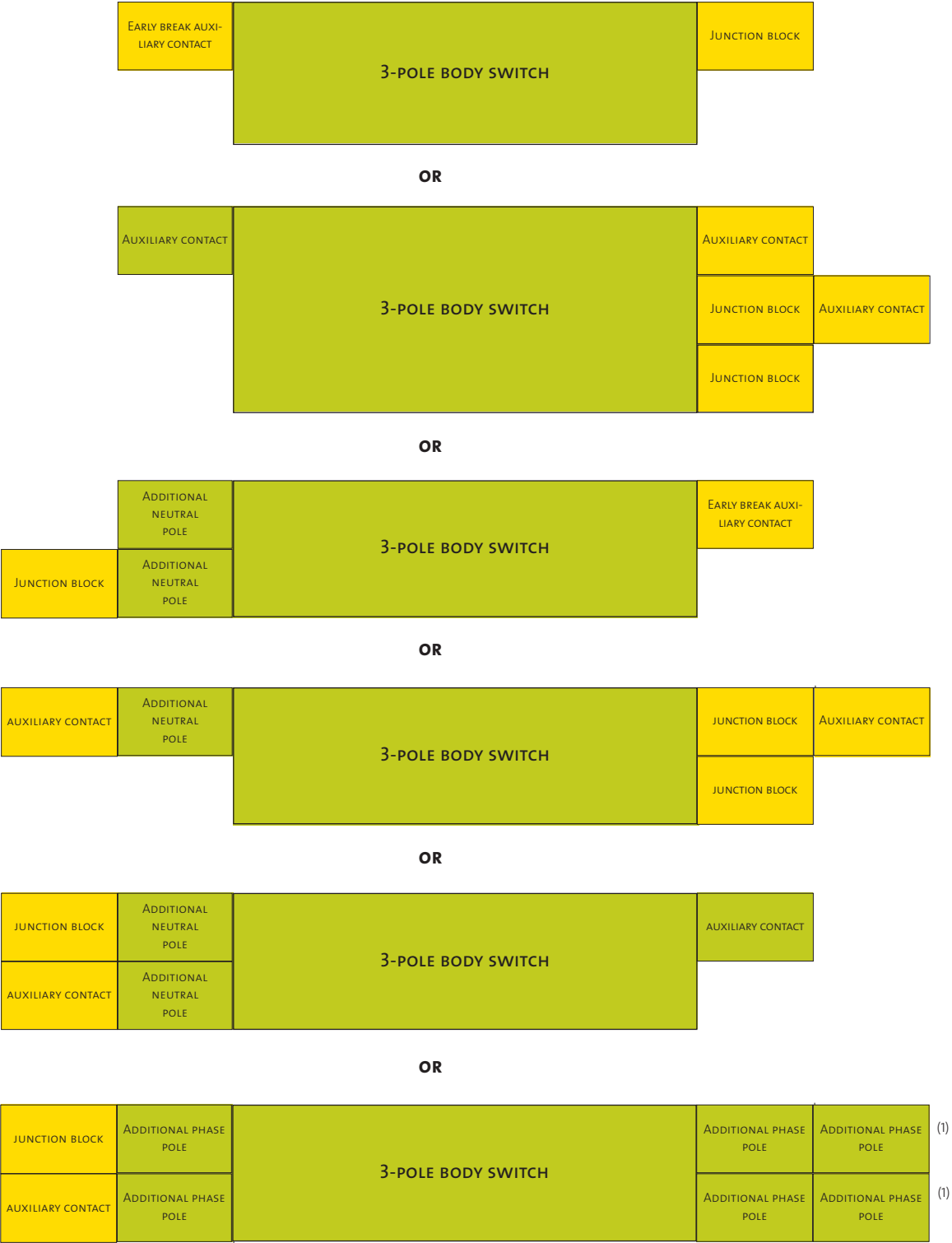


Auxiliary contact NC/NO



early break auxiliary contact

Possible configurations



Complete switch disconnecter p. 284 to 295
Permitted auxiliaries

Notes

[illegible]

Notes

[illegible]