# Heads, blocks and connection...

designed to last!




## ► 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

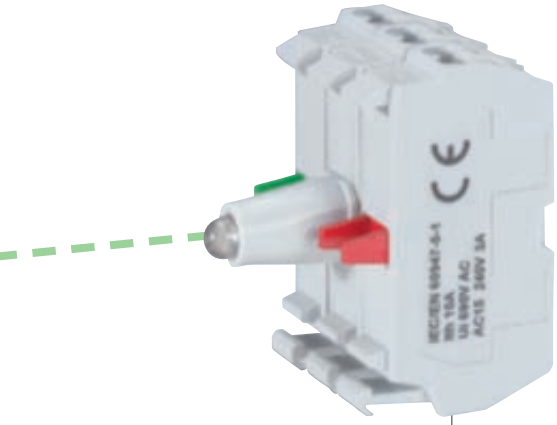
**See pages 21 to 46**

## ► 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

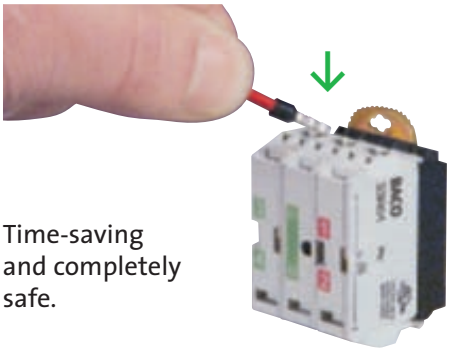
*"Imaginatively designed to be safe, robust and durable"*

- 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

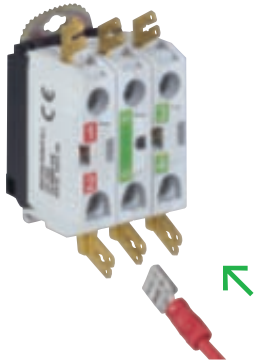


Time-saving and completely safe.

### SCREW TERMINALS



### FASTON TERMINALS



### PIN STYLE TERMINALS (FOR PCB)



# New heads...

## robust and clearly marked!



**Selector switches**
with key, handle, long handle, or knob

**IP 66**
IK05
Head with anti-rotation tab

: **Ø 22,3 mm cut-out**

: Optional cut-out required for anti-rotation tab

**Double touch**
innovative design

**Mushroom head**
EN 418/ISO 13850
illuminated

**Illuminated head**
5 colours,
LED light source

## ► 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

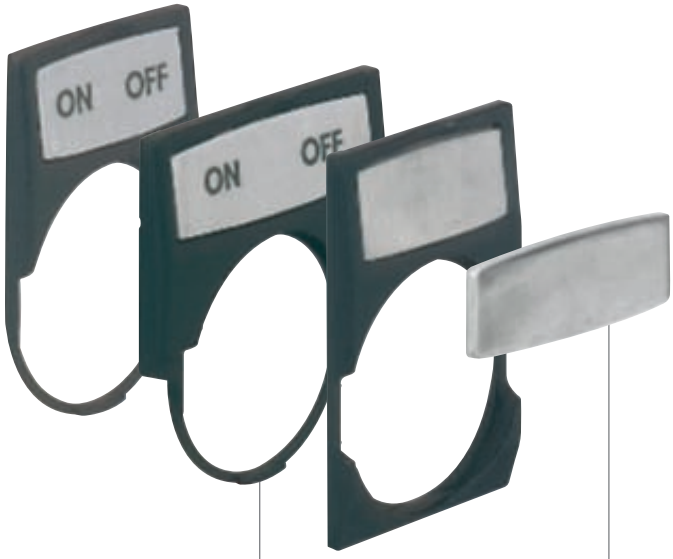
## ► MARKING WITH LEGENDS

- 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

**Bezels**
Choice between:
black or chrome



**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

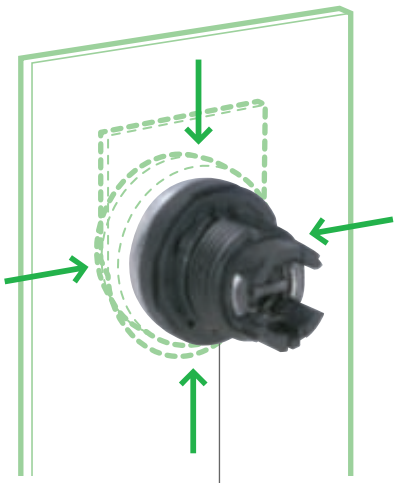
## ► READY-ASSEMBLED CONTROL STATION

- Innovative design
- 1, 2 or 3 buttons

**See page 82**



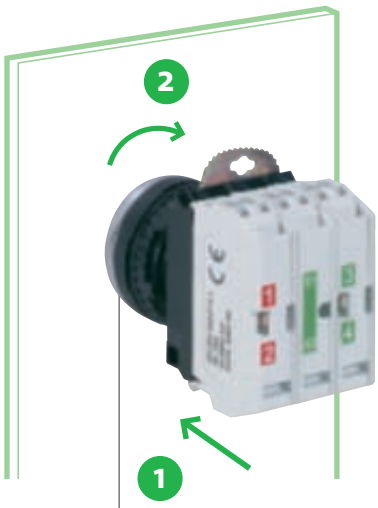
# Simplicity, speed, choice!



**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"*

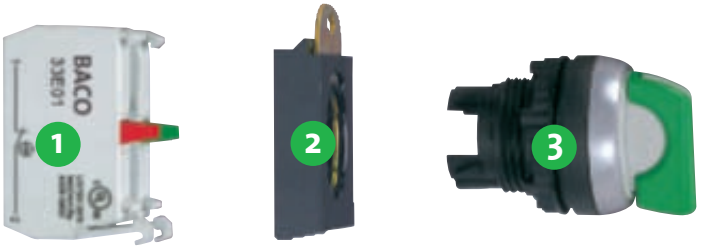
### COMPLETE UNITS

- 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



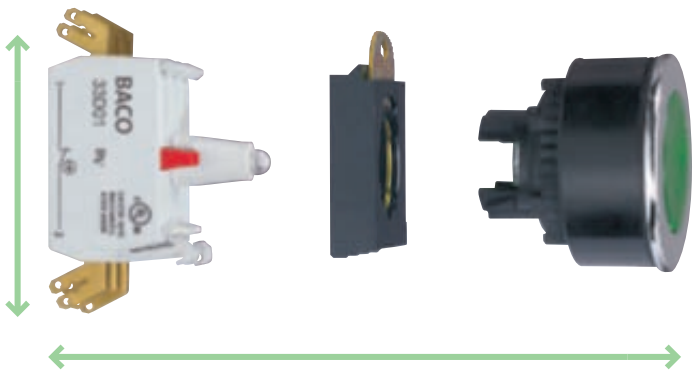

### SEPARATE UNITS

- 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)

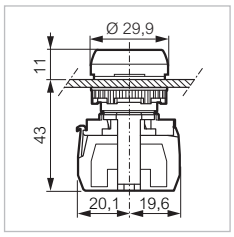
## SPRING RETURN - NON ILLUMINATED

### FLUSH

Cat. No.



L21AA02A




**Without engraving**

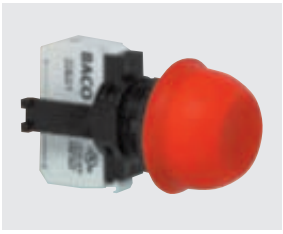
| | | | |
|---|---|---|---|
| ● Red | NC | 21 22 / 13 14 | **L21AA01B** |
| ● Green | NO | 13 14 | **L21AA02A** |
| ● Black | NO | 13 14 | **L21AA03A** |
| ● Yellow | NO | 13 14 | **L21AA04C** |
| ● Blue | NO | 13 14 | **L21AA06A** |

**With engraving**

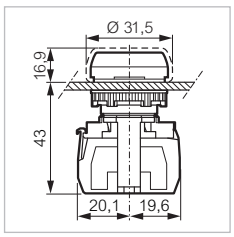
| | | | |
|---|---|---|---|
| O Red | NC | 21 22 / 13 14 | **L21AA81B** |
| I Green | NO | | **L21AA82B** |

### FLUSH

**Reinforced degree of protection: IP 67**



L22AF01A



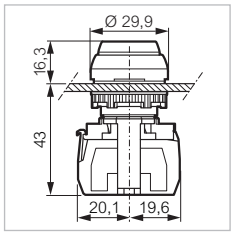

Supplied with opaque shroud

| | | | |
|---|---|---|---|
| ● Red | NC | 21 22 / 13 14 | **L22AF01A** |
| ● Green | NO | 13 14 | **L22AF02A** |
| ● Black | NO | | **L22AF03A** |

### PROJECTING



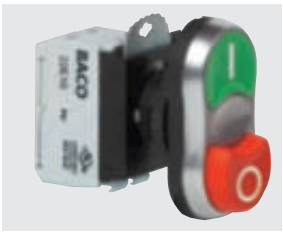
L21AB01A



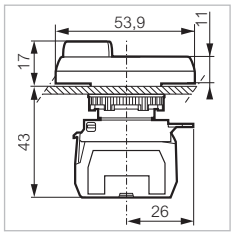

| | | | |
|---|---|---|---|
| ● Red | NC | 21 22 | **L21AB01A** |

### FLUSH-PROJECTING

**Double touch**



L61QB21A




| | | | | | |
|---|---|---|---|---|---|
| I Green - Flush | NO | 13 14 | 21 22 | 1 3 2 / NO NF | **L61QB21A** |
| O Red - Projecting | NC | | | | |

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

# 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

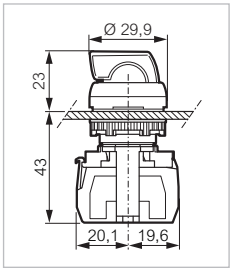
Characteristics (p. 94)

## SELECTOR SWITCHES - NON ILLUMINATED

### WITH HANDLE — 2 positions — Cat. No.



L21KE03B

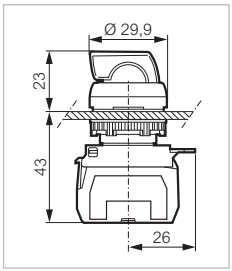



**Stay-put positions - 90°**
● Black — 0 1 — NO — 13 14 — **L21KE03B**

### WITH HANDLE — 3 positions — Cat. No.



L21MA03A



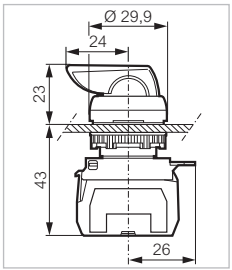

**Stay-put positions - 45°**
● Black — 1 0 2 — 2 NO — 13 14 23 24 — **L21MA03A**

**Spring return to 0 - 45°**
● Black — 1 0 2 — 2 NO — 13 14 23 24 — **L21MD03A**

### WITH LONG HANDLE — 3 positions — Cat. No.



L21MR03A




**Kontakt**

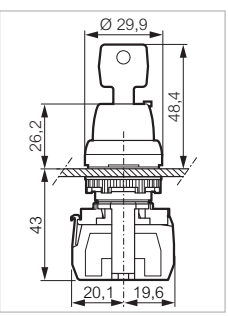
**Stay-put positions - 45°**
● Black — 1 0 2 — 2 NO — 13 14 23 24 — **L21MR03A**

**Spring return to 0 - 45°**
● Black — 1 0 2 — 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 — 0 1 — NO — 13 14 — **L21LA00G**

**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
Conform to IEC 60947-5-1

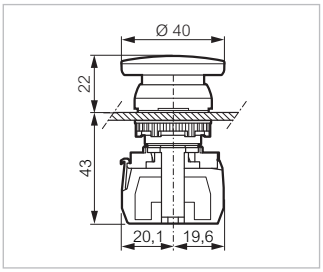
Characteristics (p. 94)

## ► MUSHROOM HEADS - NON ILLUMINATED

| Ø 40 - SPRING RETURN | Push | Cat. No. |
|---|---|---|
| | Plastic chrome bezel<br>Black bezel on request (form p. 79) | |
| | ● Red — NC 21 22 | **L21AD01C** |



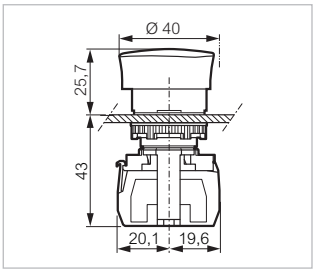
L21AD01C




| Ø 40 - STAY-PUT | Push-turn to reset | Cat. No. |
|---|---|---|
| | Black bezel | |
| | ● Red — NC 21 22 | **L22ED01D** |



L22ED01D




**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

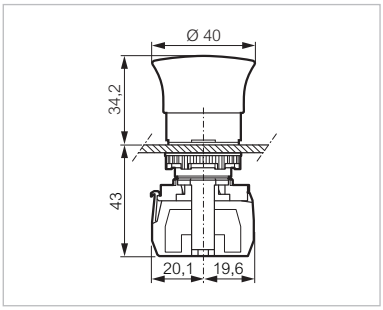
Characteristics (p. 94)

## ► MUSHROOM HEADS - NON ILLUMINATED (CONTINUED)

| Ø 40 - STAY-PUT | Push-pull to reset | Cat. No. |
|---|---|---|
| | ● Red NC 21 22 | **L22DD01A** |



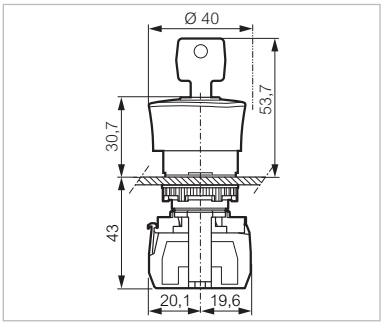
L22DD01A




| Ø 40 - STAY-PUT | Key to reset | Cat. No. |
|---|---|---|
| | Supplied with 2 keys profile n°455 | |
| | ● Red NC 21 22 | **L22GM01E** |



L22GM01E




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

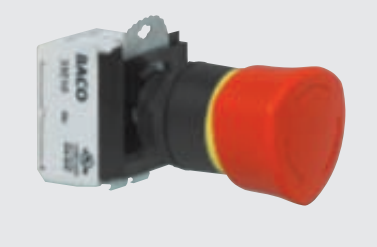
# Complete units: Mushroom heads ø 22

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

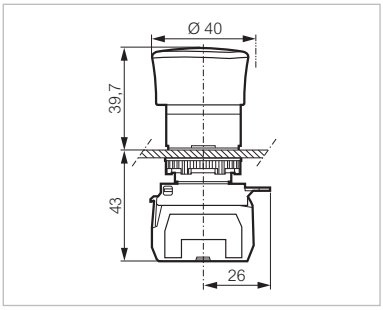
Characteristics (p. 94)

## ► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

**Ø 40 EN 418/ISO 13850 - STAY-PUT** | **Push-turn to reset** | Cat. No.



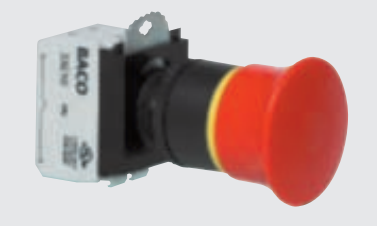
L22ER01D



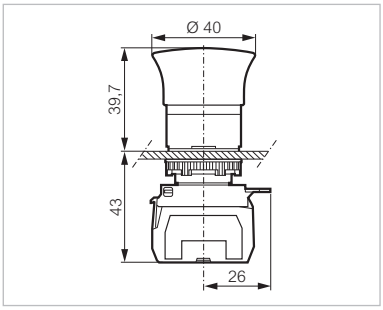

Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 /EN 418/ISO 13850

● Red — NO + NC — 13 14 / 21 22 — **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 — 13 14 / 21 22 — **L22DR01B**

**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

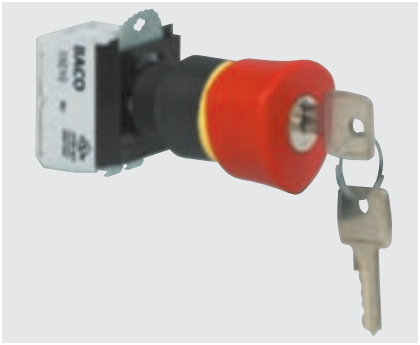
Characteristics (p. 94)

## ► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

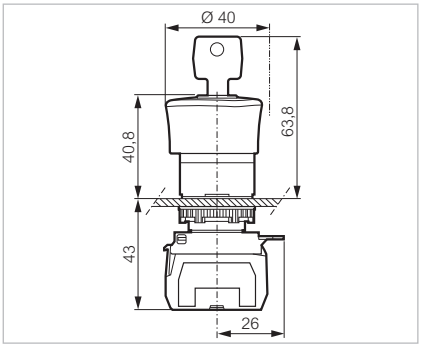
### Ø 40 EN 418/ISO 13850 - STAY-PUT

**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 — 13 14 / 21 22 — 1 3 2 / NO NF — **L22GR01B**

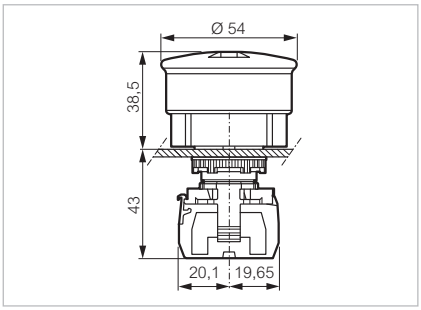
### Ø 54 EN 418/ISO 13850 - STAY-PUT

**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 — 21 22 — **L22DU01G**

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

# 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

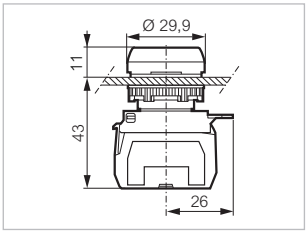
Characteristics (p. 94)

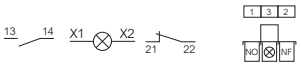
## ► SPRING RETURN - ILLUMINATED

### FLUSH



L21AH20L

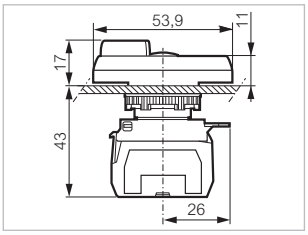


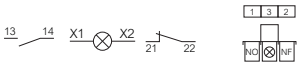

| | | Cat. No. |
|---|---|---|
| LED blocks |  | |
| **24V** | | |
| ● Red | NO+NC | **L21AH10L** |
| ● Green | NO+NC | **L21AH20L** |
| ● Yellow | NO+NC | **L21AH40L** |
| ○ White | NO+NC | **L21AH50L** |
| ● Blue | NO+NC | **L21AH60L** |
| **130 V** | | |
| ● Red | NO+NC | **L21AH10M** |
| ● Green | NO+NC | **L21AH20M** |
| **230 V** | | |
| ● Red | NO+NC | **L21AH10H** |
| ● Green | NO+NC | **L21AH20H** |

### TWIN TOUCH - FLUSH-PROJECTING



L61QK21H




| | | Cat. No. |
|---|---|---|
| LED blocks<br>Central part illuminated |  | |
| **24 V** | | |
| I Green | NO | |
| O Red | NC | **L61QK21L** |
| **130 V** | | |
| I Green | NO | |
| O Red | NC | **L61QK21M** |
| **230 V** | | |
| I Green | NO | |
| O Red | NC | **L61QK21H** |

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

# 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

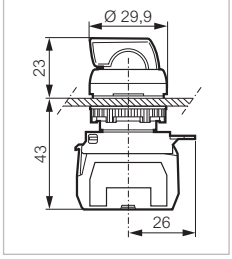
Characteristics (p. 94)

## SELECTOR SWITCHES - ILLUMINATED

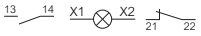
**WITH HANDLE** | **2 positions** | Cat. No.



L21KG10C




LED blocks




**Stay-put positions - 45°**
24 V

| | | | |
|---|---|---|---|
| ● Red | NO + NC | 0 1 | **L21KG10C** |
| ● Green | NO + NC | | **L21KG20E** |
| ● Black | NO + NC | | **L21KG30B** |

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

# Complete units: Pilot lights ø 22

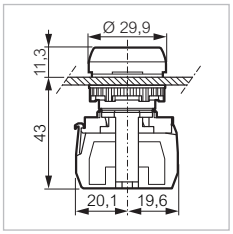
IP 66
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Conform to IEC 60947-5-1

Characteristics (p. 94)

## ▶ PILOT LIGHTS



L20SE20L




| LED blocks | X1 ⊗ X2 | Cat. No. |
|---|---|---|
| **24 V** | | |
| ● Red | | **L20SE10L** |
| ● Green | | **L20SE20L** |
| ● Yellow | | **L20SE40L** |
| ○ White | | **L20SE50L** |
| ● Blue | | **L20SE60L** |
| **130 V** | | |
| ● Red | | **L20SE10M** |
| ● Green | | **L20SE20M** |
| ● Yellow | | **L20SE40M** |
| ○ White | | **L20SE50M** |
| ● Blue | | **L20SE60M** |
| **230V** | | |
| ● Red | | **L20SE10H** |
| ● Green | | **L20SE20H** |
| ● Yellow | | **L20SE40H** |
| ○ White | | **L20SE50H** |
| ● Blue | | **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)

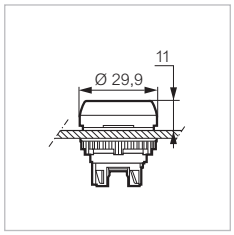
## ► PUSH-BUTTONS - NON ILLUMINATED

### SPRING RETURN - FLUSH

Cat. No.



L21AA02




**Without engraving**

| | |
|---|---|
| ● Red | **L21AA01** |
| ● Green | **L21AA02** |
| ● Black | **L21AA03** |
| ● Yellow | **L21AA04** |
| ○ White | **L21AA05** |
| ● Blue | **L21AA06** |

**With engraving**

| | |
|---|---|
| Red | **L21AA81** |
| Green | **L21AA82** |
| Black | L21AA83 |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ● Red | L21AA31⌊⌊⌊⌋ |
| ● Green | L21AA32⌊⌊⌊⌋ |
| ● Black | L21AA33⌊⌊⌊⌋ |
| ● Yellow | L21AA34⌊⌊⌊⌋ |
| ○ White | L21AA35⌊⌊⌊⌋ |
| ● Blue | L21AA36⌊⌊⌊⌋ |

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

Without button plate **L21AA00**

**Button plates (see p. 74)**



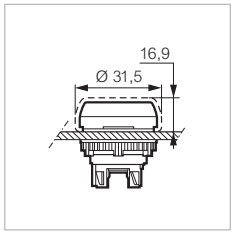
L21AA00

### SPRING RETURN - FLUSH

**Reinforced degree of protection: IP 67**



L22AF01




Supplied with shroud

**Opaque**

| | |
|---|---|
| ● Red | **L22AF01** |
| ● Green | **L22AF02** |
| ● Black | **L22AF03** |

**Transparent**

| | |
|---|---|
| ● Yellow | L22AG04 |
| ○ White | L22AG05 |
| ● Blue | L22AG06 |

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

# 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)

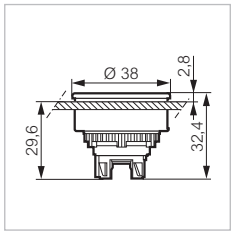
## ► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

### SPRING RETURN - SUPER FLUSH

Cat. No.



L23AA02




Metallic chrome bezel
Cut-out ø 30,5 mm

**Without engraving**

| | |
|---|---|
| ● Red | **L23AA01** |
| ● Green | **L23AA02** |
| ● Black | **L23AA03** |
| ● Yellow | L23AA04 |
| ○ White | L23AA05 |
| ● Blue | L23AA06 |

**With engraving**

| | |
|---|---|
| Red | L23AA81 |
| Green | L23AA82 |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

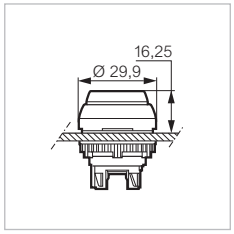
| | |
|---|---|
| ● Red | L23AA31⌊⌋⌋ |
| ● Green | L23AA32⌊⌋⌋ |
| ● Black | L23AA33⌊⌋⌋ |
| ● Yellow | L23AA34⌊⌋⌋ |
| ○ White | L23AA35⌊⌋⌋ |
| ● Blue | L23AA36⌊⌋⌋ |

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

### SPRING RETURN - PROJECTING



L21AB01



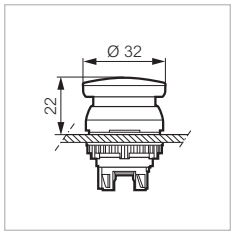

| | |
|---|---|
| ● Red | **L21AB01** |
| ● Green | **L21AB02** |
| ● Black | **L21AB03** |
| ● Yellow | **L21AB04** |
| ○ White | **L21AB05** |
| ● Blue | **L21AB06** |

### SPRING RETURN - MUSHROOM HEAD Ø 32

**Push**



L21AC03




| | |
|---|---|
| ● Red | **L21AC01** |
| ● Green | **L21AC02** |
| ● Black | **L21AC03** |
| ● Yellow | L21AC04 |

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

# 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

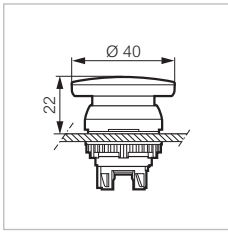
Characteristics (p. 94)

## ► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

### SPRING RETURN - MUSHROOM HEAD Ø 40 — Push



L21AD01

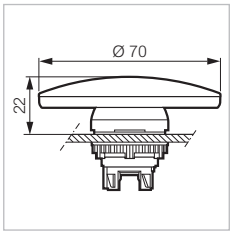



| | Cat. No. |
|---|---|
| ● Red | **L21AD01** |
| ● Green | **L21AD02** |
| ● Black | **L21AD03** |
| ● Yellow | **L21AD04** |
| ● Blue | L21AD06 |

### SPRING RETURN - MUSHROOM HEAD Ø 70 — Push



L21AE03

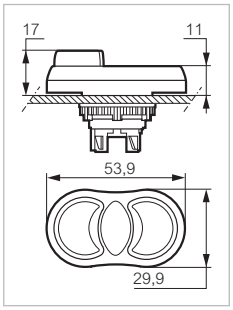



| | |
|---|---|
| ● Red | **L21AE01** |
| ● Black | **L21AE03** |

### SPRING RETURN - FLUSH-PROJECTING — Double touch



L61QB21

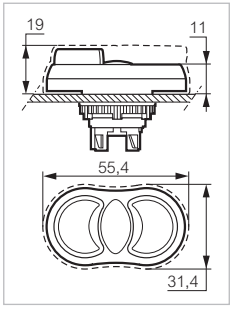



| | |
|---|---|
| I Green<br>O Red | **L61QB21** |
| Green engraving START<br>Red engraving STOP | L61QB21B |

### SPRING RETURN - FLUSH-PROJECTING — Double touch - reinforced degree of protection: IP 67



L62QM21




Supplied with transparent shroud

| | |
|---|---|
| I Green<br>O Red | **L62QM21** |

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

# 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)

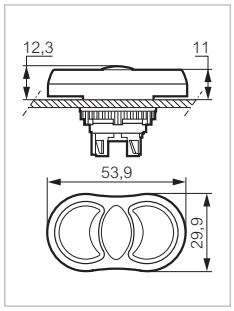
## ▶ PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

### SPRING RETURN - FLUSH-FLUSH

**Double touch**



L61QA21



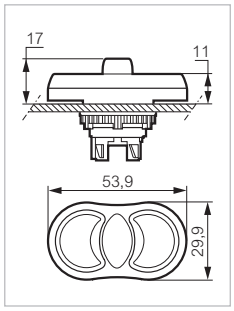

| | Cat. No. |
|---|---|
| Green<br>Red | **L61QA21** |
| Green engraving ◁II▷<br>Green engraving ▷I◁ | L61QA22 |
| Green<br>Green | L61QA22K |
| Black<br>Black | L61QA33C |

### SPRING RETURN - FLUSH-PROJECTING-FLUSH

**Triple touch**




L61BA22

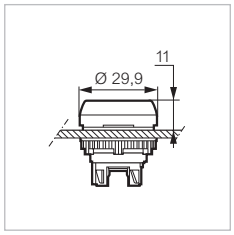



| | Cat. No. |
|---|---|
| Green<br>Red engraving STOP<br>Green | **L61BA22** |
| Green<br>Red engraving STOP<br>Green | L61BA22B |

### STAY-PUT - FLUSH



L21CA01




| | Cat. No. |
|---|---|
| Red | **L21CA01** |
| Green | **L21CA02** |
| Black | **L21CA03** |
| Yellow | **L21CA04** |
| White | **L21CA05** |
| Blue | **L21CA06** |

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

# 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)

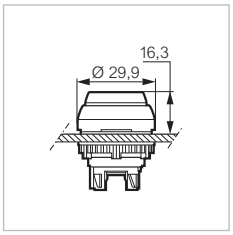
## ► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

### STAY-PUT - PROJECTING

Cat. No.



L21CB02




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

| | |
|---|---|
| ● Red | **L21CB01** |
| ● Green | **L21CB02** |
| ● Black | **L21CB03** |
| ● Yellow | L21CB04 |
| ○ White | L21CB05 |
| ● Blue | L21CB06 |

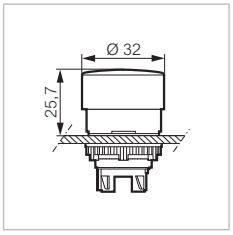
## ► MUSHROOM HEADS - NON ILLUMINATED

### Ø 32 - STAY-PUT

**Push-turn to reset**



L22EC01



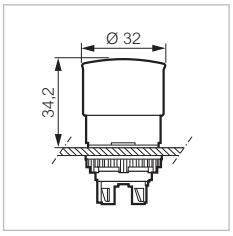

| | |
|---|---|
| ● Red | **L22EC01** |
| ● Green | L22EC02 |
| ● Black | **L22EC03** |
| ● Yellow | L22EC04 |

### Ø 32 - STAY-PUT

**Push-pull to reset**



L22DC01



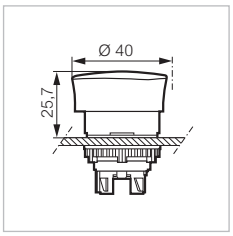

| | |
|---|---|
| ● Red | L22DC01 |

### Ø 40 - STAY-PUT

**Push-turn to reset**



L22ED01




**Without engraving**

| | |
|---|---|
| ● Red | **L22ED01** |
| ● Green | L22ED02 |
| ● Black | **L22ED03** |
| ● Yellow | L22ED04 |

**With engraving**

| | |
|---|---|
| ● Red - engraving STOP - STOP - STOP | **L22ED01B** |

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

# 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

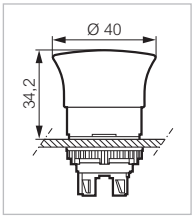
Characteristics (p. 94)

## ► MUSHROOM HEAD - NON ILLUMINATED (CONTINUED)

**Ø 40 - STAY-PUT** | **Push-pull to reset** | Cat. No.



L22DD01

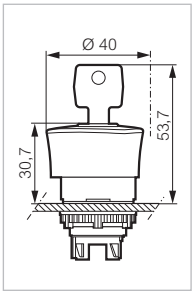



● Red **L22DD01**
● Black **L22DD03**

**Ø 40 - STAY-PUT** | **Key to reset**



L22GM01




Supplied with 2 keys profile n° 455

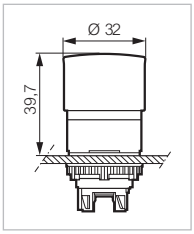
● Red **L22GM01**

## ► EN 418/ISO 13850 EMERGENCY STOP - NON ILLUMINATED

**Ø 32 EN 418/ISO 13850 - STAY-PUT** | **Push-pull** | Cat. No.



L22DQ01



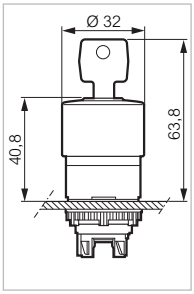

Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 /EN 418/ISO 13850

● 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

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

# 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

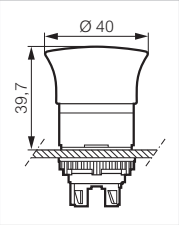
Characteristics (p. 94)

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

### Ø 40 EN 418/ISO 13850 - STAY-PUT — Push-pull to reset



L22DR01



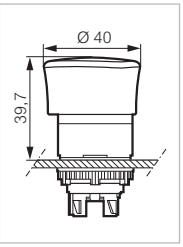

Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 /EN 418/ISO 13850

● Red — **L22DR01**

### Ø 40 EN 418/ISO 13850 - STAY-PUT — Push-turn to reset



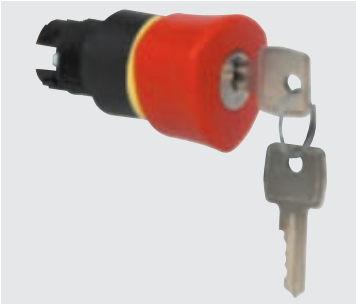
L22ER01



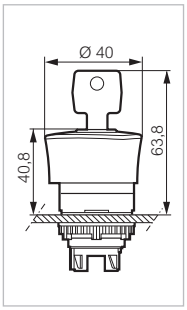

Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 /EN 418/ISO 13850

● Red — **L22ER01**

### Ø 40 EN 418/ISO 13850 - STAY-PUT — Key to reset



L22GR01



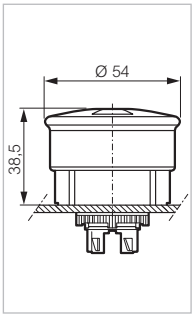

Supplied with 2 keys profile n° 455
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 /EN 418/ISO 13850

● 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 — **L22DU01A**
● Red - engraving STOP - I — **L22DU01**

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

# 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

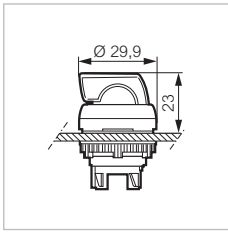
Characteristics (p. 94)

## ► SELECTOR SWITCHES - NON ILLUMINATED

**WITH HANDLE**



L21KA03




| **2 positions** | Cat. No. |
|---|---|
| **Stay-put positions - 45°**   | |
| ● Red | **L21KA01** |
| ● Green | **L21KA02** |
| ● Black | **L21KA03** |
| ● Grey | **L21KA08** |
| **Spring return - 45°**   | |
| ● Red | L21KB01 |
| ● Green | L21KB02 |
| ● Black | **L21KB03** |
| ● Grey | L21KB08 |
| **Stay-put positions - 45°**   | |
| ● Red | **L21KC01** |
| ● Green | **L21KC02** |
| ● Black | **L21KC03** |
| ● Grey | **L21KC08** |
| **Spring return - 45°**   | |
| ● Red | L21KD01 |
| ● Green | L21KD02 |
| ● Black | **L21KD03** |
| ● Grey | L21KD08 |
| **Stay-put positions - 90°**   | |
| ● Red | L21KE01 |
| ● Green | L21KE02 |
| ● Black | **L21KE03** |
| ● Grey | L21KE08 |
| **Stay-put positions - 90°**   | |
| ● Red | L21KF01 |
| ● Green | L21KF02 |
| ● Black | **L21KF03** |
| ● Grey | L21KF08 |

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

# 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

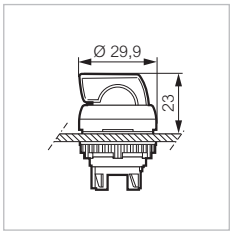
Characteristics (p. 94)

## ► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

**WITH HANDLE**



L21MA03






L21MA08

| 3 positions | | Cat. No. |
|---|---|---|
| **Stay-put positions - 45°** | | |
| ● Red |  | **L21MA01** |
| ● Green | | **L21MA02** |
| ● Black | | **L21MA03** |
| ● Grey | | **L21MA08** |
| **Spring return from left to 0 - 45°** | | |
| ● Red |  | L21MB01 |
| ● Green | | L21MB02 |
| ● Black | | **L21MB03** |
| ● Grey | | L21MB08 |
| **Spring return from right to 0 - 45°** | | |
| ● Red |  | L21MC01 |
| ● Green | | L21MC02 |
| ● Black | | **L21MC03** |
| ● Grey | | L21MC08 |
| **Spring return to 0 - 45°** | | |
| ● Red |  | L21MD01 |
| ● Green | | L21MD02 |
| ● Black | | **L21MD03** |
| ● Grey | | L21MD08 |
| **Stay-put positions - 90°** | | |
| ● Red |  | L21MK01 |
| ● Green | | L21MK02 |
| ● Black | | **L21MK03** |
| ● Grey | | L21MK08 |

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

# 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

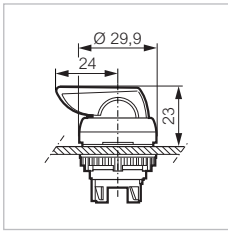
Characteristics (p. 94)

## ► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

**WITH LONG HANDLE**



L21KP03




| 2 positions | | Cat. No. |
|---|---|---|
| **Stay-put positions - 45°** | | |
| ● Red |  | L21KP01 |
| ● Green | | L21KP02 |
| ● Black | | **L21KP03** |
| ● Grey | | L21KP08 |
| **Spring return - 45°** | | |
| ● Red |  | L21KQ01 |
| ● Green | | L21KQ02 |
| ● Black | | **L21KQ03** |
| **Stay-put positions - 45°** | | |
| ● Red |  | L21KR01 |
| ● Green | | L21KR02 |
| ● Black | | **L21KR03** |
| **Spring return - 45°** | | |
| ● Red |  | L21KS01 |
| ● Green | | L21KS02 |
| ● Black | | **L21KS03** |
| **Stay-put positions - 90°** | | |
| ● Red |  | L21KT01 |
| ● Green | | L21KT02 |
| ● Black | | **L21KT03** |
| **Stay-put positions - 90°** | | |
| ● Red |  | L21KU01 |
| ● Green | | L21KU02 |
| ● Black | | **L21KU03** |

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

# 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

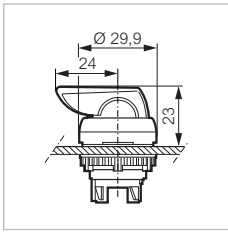
Characteristics (p. 94)

## SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

**WITH LONG HANDLE**



L21MR03




| 3 positions | | Cat. No. |
|---|---|---|
| **Stay-put positions - 45°** | | |
| ● Red |  | L21MR01 |
| ● Green | | L21MR02 |
| ● Black | | **L21MR03** |
| ● Grey | | L21MR08 |
| **Spring return from left to 0 - 45°** | | |
| ● Red |  | L21MS01 |
| ● Green | | L21MS02 |
| ● Black | | **L21MS03** |
| ● Grey | | L21MS08 |
| **Spring return from right to 0 - 45°** | | |
| ● Red |  | L21MT01 |
| ● Green | | L21MT02 |
| ● Black | | **L21MT03** |
| ● Grey | | L21MT08 |
| **Spring return to 0 - 45°** | | |
| ● Red |  | L21MU01 |
| ● Green | | L21MU02 |
| ● Black | | **L21MU03** |
| ● Grey | | L21MU08 |

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

# 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)

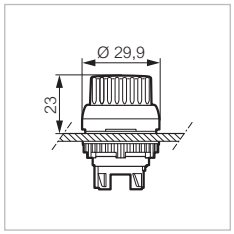
## ► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

### WITH KNOB

**2 positions**



L21TF03




**Stay-put positions - 45°**
● Black — 0 1 — **L21TA03**

**Spring return - 45°**
● Black — 0 1 — **L21TB03**

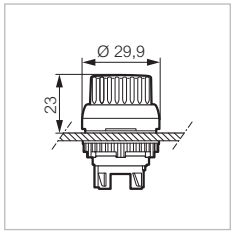
**Stay-put positions - 90°**
● Black — 0 1 — **L21TF03**

### WITH KNOB

**3 positions**



L21UA03




**Stay-put positions - 45°**
● Black — 0 1 2 — **L21UA03**

**Spring return from left to 0 - 45°**
● Black — 0 1 2 — L21UB03

**Spring return from right to 0 - 45°**
● Black — 0 1 2 — L21UC03

**Spring return to 0 - 45°**
● Black — 0 1 2 — **L21UD03**

**Stay-put positions - 90°**
● Black — 0 1 2 — **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

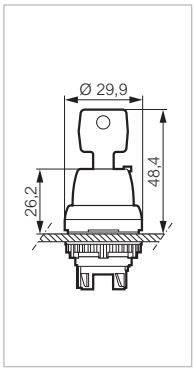
Characteristics (p. 94)

## ► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

**WITH KEY**



L21LG00




| 2 positions | Key free in position: | Cat. No. |
|---|---|---|
| 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

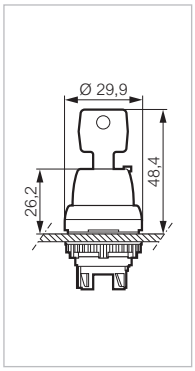
IP 66
To be combined with a clip and electrical blocks (p. 48)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 79)
Conform to IEC 60947-5-1

Characteristics (p. 94)

## SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)



L21NA00




| WITH KEY — 3 positions | Key free in position: | Cat. No. |
|---|---|---|
| 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)**

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

# 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)

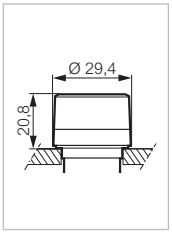
## ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

### 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 | **L21HA01** |
| ● Green | **L21HA02** |
| ● Black | **L21HA03** |
| ● Yellow | L21HA04 |
| ○ White | L21HA05 |
| ● Blue | **L21HA06** |

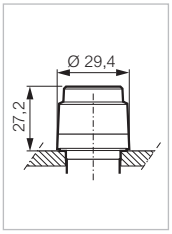
**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ● Red | L21HA31⌊⌋⌊⌋⌊⌋ |
| ● Green | L21HA32⌊⌋⌊⌋⌊⌋ |
| ● Black | L21HA33⌊⌋⌊⌋⌊⌋ |
| ● Yellow | L21HA34⌊⌋⌊⌋⌊⌋ |
| ○ White | L21HA35⌊⌋⌊⌋⌊⌋ |
| ● Blue | 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 | L21HB01 |
| ● Green | L21HB02 |
| ● Black | L21HB03 |
| ● Yellow | L21HB04 |
| ○ White | L21HB05 |
| ● Blue | L21HB06 |

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

# Separate units ø 22: Heads

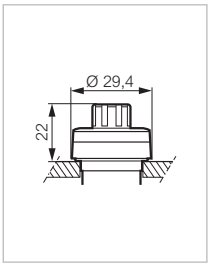
IP 65
With locking ring
Conform to IEC 60947-5-1

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

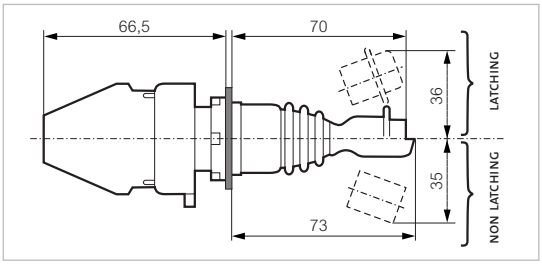
Cat. No.



LM2F



LMV4F




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 — **LM2F**
2 spring-return — A→0←B — **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 — **LMV2F**
2 spring-return — A→0←B — **LMV2A**

**4 directions - 5 positions**

4 maintained (stay-put) — A / C - 0 - D / B — **LMV4F**

4 spring-return — A / C→0←D / B — **LMV4A**

**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)

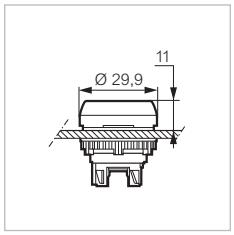
## ► PUSH-BUTTONS - ILLUMINATED

### SPRING RETURN - FLUSH

Cat. No.



L21AH20




**Without engraving**

| | |
|---|---|
| ● Red | **L21AH10** |
| ● Green | **L21AH20** |
| ● Yellow | **L21AH40** |
| ○ White | **L21AH50** |
| ● Blue | **L21AH60** |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ● Red | L21AH31⌊⌊⌊⌋ |
| ● Green | L21AH32⌊⌊⌊⌋ |
| ● Yellow | L21AH34⌊⌊⌊⌋ |
| ○ White | L21AH35⌊⌊⌊⌋ |
| ● Blue | L21AH36⌊⌊⌊⌋ |



L21AH00

Without button plate — **L21AH00**

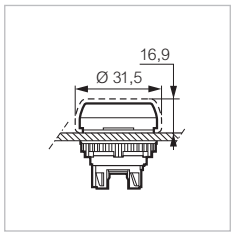
**Button plates (p. 74)**

### SPRING RETURN - FLUSH

**Reinforced degree of protection: IP 67**



L22AP40



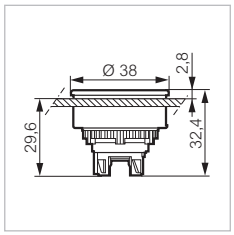

Supplied with transparent shroud

| | |
|---|---|
| ● Red | L22AP10 |
| ● Green | L22AP20 |
| ● Yellow | L22AP40 |
| ○ White | L22AP50 |
| ● Blue | L22AP60 |

### SPRING RETURN - SUPER FLUSH



L23AH10




Metallic chrome bezel
Drilling ø 30,5 mm

**Without engraving**

| | |
|---|---|
| ● Red | **L23AH10** |
| ● Green | **L23AH20** |
| ● Yellow | L23AH40 |
| ○ White | L23AH50 |
| ● Blue | L23AH60 |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ● Red | L23AH31⌊⌊⌊⌋ |
| ● Green | L23AH32⌊⌊⌊⌋ |
| ● Yellow | L23AH34⌊⌊⌊⌋ |
| ○ White | L23AH35⌊⌊⌊⌋ |
| ● Blue | 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)

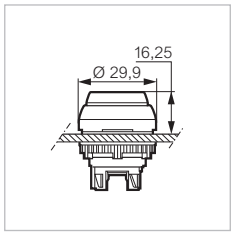
## ► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

### SPRING RETURN - PROJECTING

Cat. No.



L21AK20



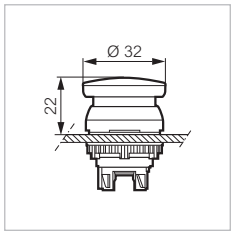

| | |
|---|---|
| ● Red | **L21AK10** |
| ● Green | **L21AK20** |
| ● Yellow | **L21AK40** |
| ○ White | **L21AK50** |
| ● Blue | **L21AK60** |

### SPRING RETURN - MUSHROOM HEAD Ø 32

**Push**



L21AL10



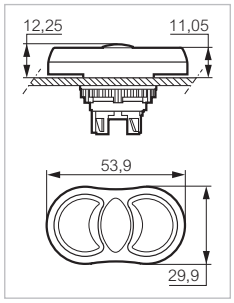

| | |
|---|---|
| ● Red | **L21AL10** |
| ● Green | **L21AL20** |
| ● Yellow | L21AL40 |
| ○ White | L21AL50 |

### SPRING RETURN - FLUSH-FLUSH

**Double touch**



L61QH21




Central part illuminated

| | |
|---|---|
| ● Green<br>● Red | **L61QH21** |
| ● Green<br>● Green | **L61QH22V** |
| ● Green engraving START<br>● Red engraving STOP | L61QH21A |

**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

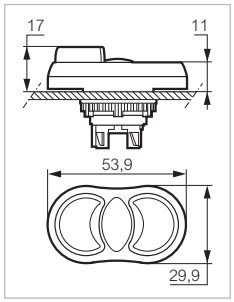
Characteristics (p. 94)

## ► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

**SPRING RETURN - FLUSH-PROJECTING** — **Double touch** — Cat. No.



L61QK21



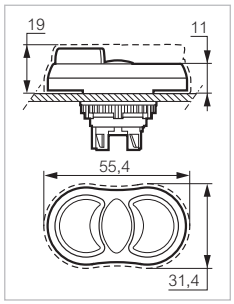

Central part illuminated

| | |
|---|---|
| Green<br>Red | **L61QK21** |
| White<br>Black | **L61QK53** |
| Green engraving START<br>Red engraving STOP | **L61QK21A** |

**SPRING RETURN - FLUSH-PROJECTING** — **Double touch - reinforced degree of protection: IP 67**



L62QN21




Supplied with transparent shroud
Central part illuminated

| | |
|---|---|
| Green<br>Red | **L62QN21** |

# 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

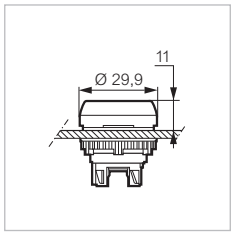
Characteristics (p. 94)

## ► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

### STAY-PUT - FLUSH



L21CH20

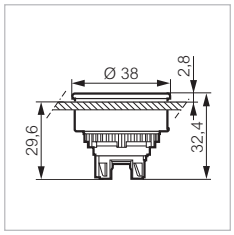



| | Réf. |
|---|---|
| ● Red | **L21CH10** |
| ● Green | **L21CH20** |
| ● Yellow | **L21CH40** |
| ○ White | **L21CH50** |
| ● Blue | **L21CH60** |

### STAY-PUT - SUPER FLUSH



L23CH10



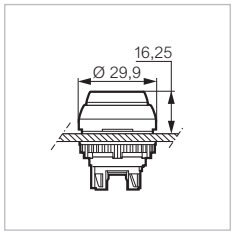

Metallic chrome bezel
Drilling ø 30,5 mm

| | |
|---|---|
| ● Red | **L23CH10** |
| ● Green | **L23CH20** |
| ● Yellow | L23CH40 |
| ○ White | L23CH50 |
| ● Blue | L23CH60 |

### STAY-PUT - PROJECTING



L21CK20




| | |
|---|---|
| ● Red | **L21CK10** |
| ● Green | **L21CK20** |
| ● Yellow | **L21CK40** |
| ○ White | **L21CK50** |
| ● Blue | **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

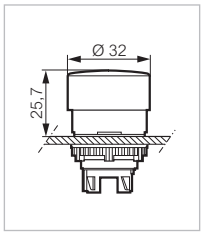
Characteristics (p. 94)

## ► MUSHROOM HEADS - ILLUMINATED

### Ø 32 - STAY-PUT — Push-turn to reset



L22EL10

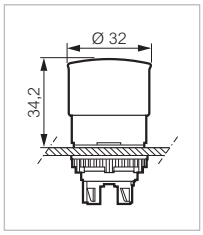



| | Cat. No. |
|---|---|
| ● Red | **L22EL10** |

### Ø 32 - STAY-PUT — Push-pull to reset



L22DL10

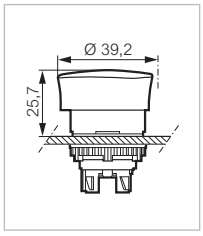



| | Cat. No. |
|---|---|
| ● Red | L22DL10 |

### Ø 40 - STAY-PUT — Push-turn to reset



L22EM10

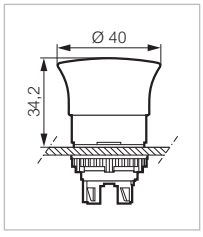



| | Cat. No. |
|---|---|
| ● Red | **L22EM10** |
| ● Green | L22EM20 |
| ● Yellow | L22EM40 |

### Ø 40 - STAY-PUT — Push-pull to reset



L22DM10




| | Cat. No. |
|---|---|
| ● Red | **L22DM10** |
| ● Green | L22DM20 |
| ● Yellow | L22DM40 |
| ○ White | 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

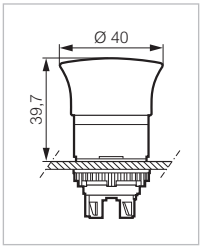
Characteristics (p. 94)

## ► 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

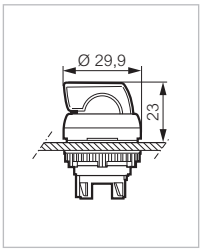
- Red — **L22DN10**

## ► SELECTOR SWITCHES - ILLUMINATED

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



L21KJ30




**Stay-put positions - 45°**




- Red — **L21KG10**
- Green — **L21KG20**
- Black — **L21KG30**

**Spring return- 45°**




- Red — L21KH10
- Green — L21KH20
- Black — **L21KH30**

**Stay-put positions - 45°**




- Red — **L21KJ10**
- Green — **L21KJ20**
- Black — **L21KJ30**

**Spring return- 45°**




- Red — L21KK10
- Green — L21KK20
- Black — **L21KK30**

**Stay-put positions - 90°**




- Red — L21KL10
- Green — L21KL20
- Black — **L21KL30**

**Stay-put positions - 90°**




- Red — **L21KM10**
- Green — **L21KM20**
- Black — **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

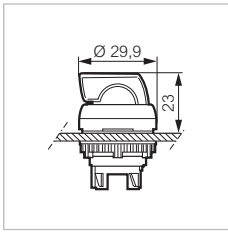
Characteristics (p. 94)

## SELECTOR SWITCHES - ILLUMINATED

**WITH HANDLE**



L21ME10




| 3 positions | | Cat. No. |
|---|---|---|
| **Stay-put positions - 45°** | | |
| ● Red<br>● Green<br>● Black |  | **L21ME10**<br>**L21ME20**<br>**L21ME30** |
| **Spring return from left to 0 - 45°** | | |
| ● Red<br>● Green<br>● Black |  | L21MF10<br>L21MF20<br>L21MF30 |
| **Spring return from right to 0 - 45°** | | |
| ● Red<br>● Green<br>● Black |  | **L21MG10**<br>**L21MG20**<br>**L21MG30** |
| **Spring return to 0 - 45°** | | |
| ● Red<br>● Green<br>● Black |  | **L21MH10**<br>**L21MH20**<br>**L21MH30** |
| **Stay-put positions - 90°** | | |
| ● Red<br>● Green<br>● Black |  | L21MJ10<br>L21MJ20<br>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

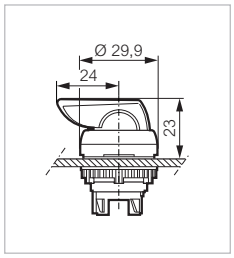
Characteristics (p. 94)

## ► SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

### WITH LONG HANDLE — 2 positions



L21KV30

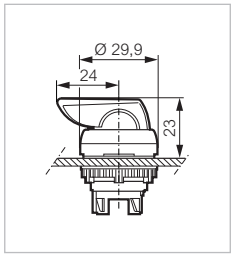



| | | Cat. No |
|---|---|---|
| **Stay-put positions - 45°** | | |
| ● Black |   | **L21KV30** |
| **Stay-put positions - 45°** | | |
| ● Black |   | L21KX30 |
| **Spring return - 45°** | | |
| ● Black |   | L21KY30 |

### 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

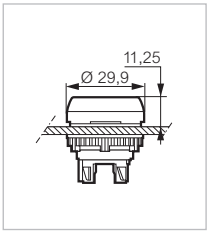
IP 66
To be combined with a clip, LED block (p. 51)
With locking ring
Conform to IEC 60947-5-1

Characteristics (p. 94)

## PILOT LIGHTS - SEPARATE UNITS



L20SE20



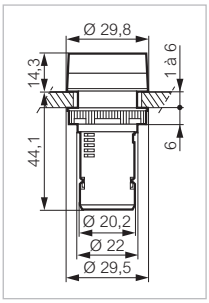

To be combined with a clip and LED block (p. 51)

| | Cat. No |
|---|---|
| **Without engraving** | |
| ● Red | **L20SE10** |
| ● Green | **L20SE20** |
| ● Yellow | **L20SE40** |
| ○ White | **L20SE50** |
| ● Blue | **L20SE60** |
| **On demand engraving (p. 70)** Symbol code to be added at the end of the catalogue number | |
| ● Red | L20SE31⌊⌋⌊⌋ |
| ● Green | L20SE32⌊⌋⌊⌋ |
| ● Yellow | L20SE34⌊⌋⌊⌋ |
| ○ White | L20SE35⌊⌋⌊⌋ |
| ● Blue | L20SE36⌊⌋⌊⌋ |

## ONE-PIECE PILOT LIGHTS



L20SA40




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

| | Cat. No |
|---|---|
| **Without engraving** Ribbed lens | |
| ● Red | **L20SA10** |
| ● Green | **L20SA20** |
| ○ Colourless | **L20SA30** |
| ● Yellow | **L20SA40** |
| ○ White | **L20SA50** |
| ● Blue | **L20SA60** |
| **On demand engraving (p. 70)** Symbol code to be added at the end of the catalogue number Smooth lens | |
| ● Red | L20SA31⌊⌋⌊⌋ |
| ● Green | L20SA32⌊⌋⌊⌋ |
| ○ Colourless | L20SA33⌊⌋⌊⌋ |
| ● Yellow | L20SA34⌊⌋⌊⌋ |
| ○ White | L20SA35⌊⌋⌊⌋ |
| ● Blue | L20SA36⌊⌋⌊⌋ |

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

# Pilot lights ø 22

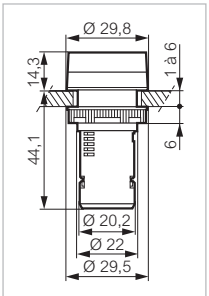
IP 66
Direct supply

Characteristics (p. 94)

## ONE-PIECE PILOT LIGHTS (CONTINUED)



L20SA10M




Supplied with LED bulb-type BA9S
Smooth lens

Cat. No.

**24V**

**Without engraving**

| | |
|---|---|
| ● Red | **L20SA10L** |
| ● Green | **L20SA20L** |
| ● Yellow | **L20SA40L** |
| ○ White | **L20SA50L** |
| ● Blue | **L20SA60L** |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ● Red | L20SA31L⌊⌊⌊⌋ |
| ● Green | L20SA32L⌊⌊⌊⌋ |
| ● Yellow | L20SA34L⌊⌊⌊⌋ |
| ○ Colourless | L20SA33L⌊⌊⌊⌋ |
| ● Blue | L20SA36L⌊⌊⌊⌋ |

**130V**

**Without engraving**

| | |
|---|---|
| ● Red | **L20SA10M** |
| ● Green | **L20SA20M** |
| ● Yellow | **L20SA40M** |
| ○ White | **L20SA50M** |
| ● Blue | **L20SA60M** |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ● Red | L20SA31M⌊⌊⌊⌋ |
| ● Green | L20SA32M⌊⌊⌊⌋ |
| ● Yellow | L20SA34M⌊⌊⌊⌋ |
| ○ Colourless | L20SA33M⌊⌊⌊⌋ |
| ● Blue | L20SA36M⌊⌊⌊⌋ |

**230V**

**Without engraving**

| | |
|---|---|
| ● Red | **L20SA10H** |
| ● Green | **L20SA20H** |
| ● Yellow | **L20SA40H** |
| ○ White | **L20SA50H** |
| ● Blue | **L20SA60H** |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ● Red | L20SA31H⌊⌊⌊⌋ |
| ● Green | L20SA32H⌊⌊⌊⌋ |
| ● Yellow | L20SA34H⌊⌊⌊⌋ |
| ○ Colourless | L20SA33H⌊⌊⌊⌋ |
| ● Blue | L20SA36H⌊⌊⌊⌋ |

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

# Block holder clips for assembly as you require

## 1, 3 or 5-position clips

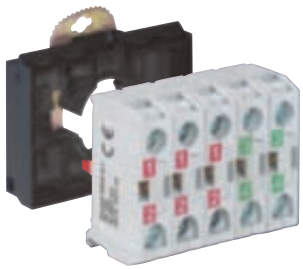
### ► CLIP

*"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

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

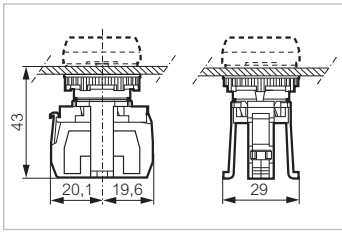
Characteristics (p. 94)

## ► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS

### SCREW TERMINALS — 1 position clip



331E10

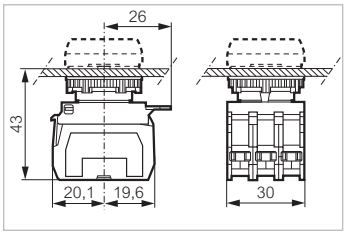


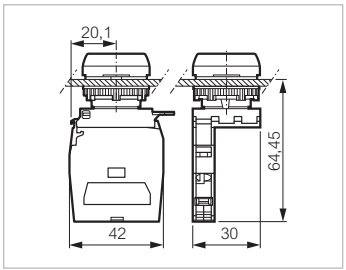

| | | Cat. No. |
|---|---|---|
| NO | 13 14 | **331E10** |
| NC | 21 22 | **331E01** |

### SCREW TERMINALS — 3 position clip

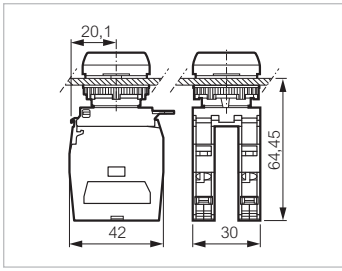


333E21




NO/NC




2 NO/NC

| | | | Cat. No. |
|---|---|---|---|
| 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** |
| 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 | | 334E11 |
| 2 NO/NC | 12 11 / 14 13 | 22 21 / 24 23 | 334E22 |

# 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

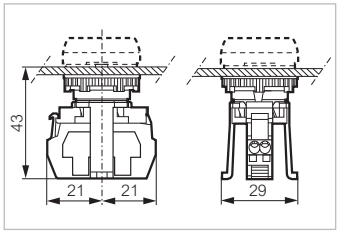
Characteristics (p. 94)

## ▶ CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

### PLUG-IN TERMINALS — 1 position clip



331ER01

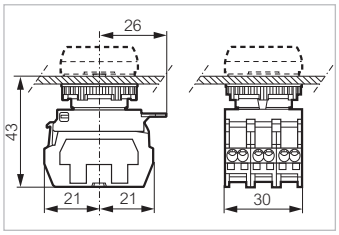



| | | Cat. No. |
|---|---|---|
| NO | 13 14 | **331ER10** |
| NC | 21 22 | **331ER01** |

### PLUG-IN TERMINALS — 3 position clip



333ER11




| | | | | Cat. No. |
|---|---|---|---|---|
| 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 |

**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

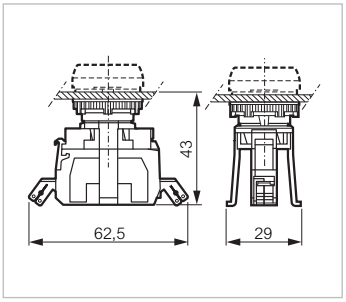
Characteristics (p. 94)

## ► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

| FASTON TERMINALS | 1 position clip | | Cat. No. |
|---|---|---|---|
| | NO | 13 14 | **331ED10** |
| | NC | 21 22 | **331ED01** |



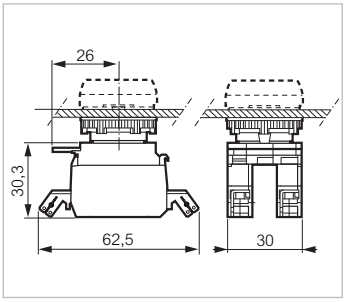

331ED10




| FASTON TERMINALS | 3 position clip | | | Cat. No. |
|---|---|---|---|---|
| | NO + NC | 13 14 | 21 22 | 333ED11 |




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)

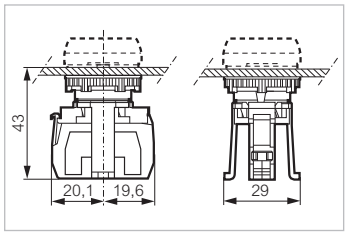
## ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS

### SCREW TERMINALS

**1 position clip: LED block**




331EAGL




LED



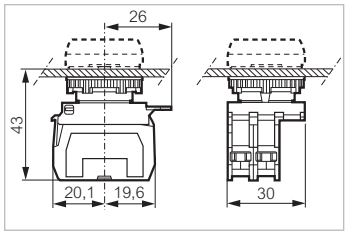

| | Cat. No. |
|---|---|
| **24 V** | |
| White | 331EAWL |
| Red | 331EARL |
| Green | 331EAGL |
| Blue | 331EABL |
| Yellow | 331EAYL |
| **130 V** | |
| White | 331EAWM |
| Red | 331EARM |
| Green | 331EAGM |
| Blue | 331EABM |
| Yellow | 331EAYM |
| **230 V** | |
| White | 331EAWH |
| Red | 331EARH |
| Green | 331EAGH |
| Blue | 331EABH |
| Yellow | 331EAYH |

### SCREW TERMINALS

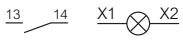
**3 position clip: NO + LED block**




333EAWM10




LED




| | |
|---|---|
| **24 V** | |
| White | **333EAWL10** |
| Red | **333EARL10** |
| Green | **333EAGL10** |
| Blue | 333EABL10 |
| Yellow | 333EAYL10 |
| **130 V** | |
| White | 333EAWM10 |
| Red | 333EARM10 |
| Green | 333EAGM10 |
| Blue | 333EABM10 |
| Yellow | 333EAYM10 |
| **230 V** | |
| White | **333EAWH10** |
| Red | **333EARH10** |
| Green | **333EAGH10** |
| Blue | 333EABH10 |
| Yellow | 333EAYH10 |

**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)

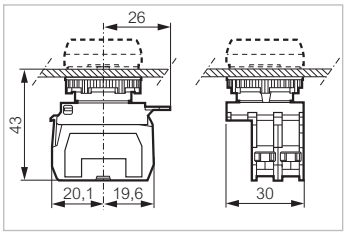
## ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

### SCREW TERMINALS

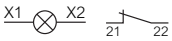
**3 position clip: LED block + NC**



333EAWL01




LED



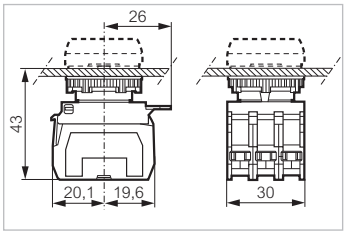

| | Cat. No. |
|---|---|
| **24 V** | |
| White | 333EAWL01 |
| Red | 333EARL01 |
| Green | 333EAGL01 |
| Blue | 333EABL01 |
| Yellow | 333EAYL01 |
| **130 V** | |
| White | 333EAWM01 |
| Red | 333EARM01 |
| Green | 333EAGM01 |
| Blue | 333EABM01 |
| Yellow | 333EAYM01 |
| **230 V** | |
| White | 333EAWH01 |
| Red | 333EARH01 |
| Green | 333EAGH01 |
| Blue | 333EABH01 |
| Yellow | 333EAYH01 |

### SCREW TERMINALS

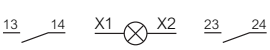
**3 position clip: NO + LED block + NO**



333EARL20




LED




| | Cat. No. |
|---|---|
| **24 V** | |
| White | **333EAWL20** |
| Red | **333EARL20** |
| Green | **333EAGL20** |
| Blue | 333EABL20 |
| Yellow | 333EAYL20 |
| **130 V** | |
| White | 333EAWM20 |
| Red | 333EARM20 |
| Green | 333EAGM20 |
| Blue | 333EABM20 |
| Yellow | 333EAYM20 |
| **230 V** | |
| White | **333EAWH20** |
| Red | **333EARH20** |
| Green | **333EAGH20** |
| Blue | 333EABH20 |
| Yellow | 333EAYH20 |

**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)

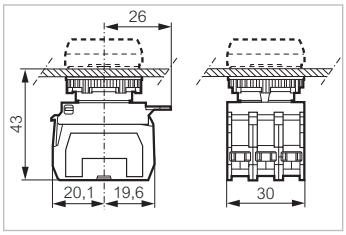
## ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

### SCREW TERMINALS

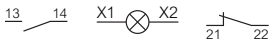
**3 position clip: NO + LED block + NC**



333EARL11



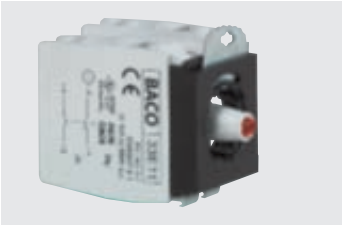

LED



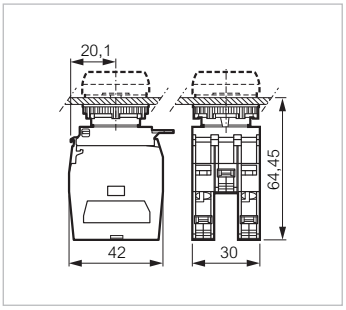

| | Cat. No. |
|---|---|
| **24 V** | |
| White | **333EAWL11** |
| Red | **333EARL11** |
| Green | **333EAGL11** |
| Blue | 333EABL11 |
| Yellow | 333EAYL11 |
| **130 V** | |
| White | 333EAWM11 |
| Red | 333EARM11 |
| Green | 333EAGM11 |
| Blue | 333EABM11 |
| Yellow | 333EAYM11 |
| **230 V** | |
| White | **333EAWH11** |
| Red | **333EARH11** |
| Green | **333EAGH11** |
| Blue | 333EABH11 |
| Yellow | 333EAYH11 |

### SCREW TERMINALS

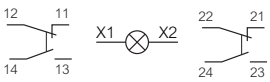
**3 position clip: NO/NC + LED block + NO/NC**



334EARL22




LED




| | Cat. No. |
|---|---|
| **24 V** | |
| White | **334EAWL22** |
| Red | **334EARL22** |
| Green | **334EAGL22** |
| Blue | **334EABL22** |
| Yellow | **334EAYL22** |
| **130 V** | |
| White | **334EAWM22** |
| Red | **334EARM22** |
| Green | **334EAGM22** |
| Blue | **334EABM22** |
| Yellow | **334EAYM22** |
| **230 V** | |
| White | **334EAWH22** |
| Red | **334EARH22** |
| Green | **334EAGH22** |
| Blue | **334EABH22** |
| Yellow | **334EAYH22** |

**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)

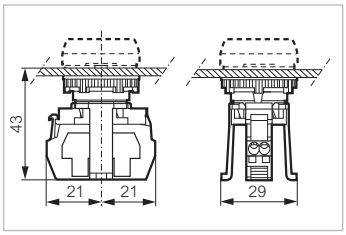
## ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

### PLUG-IN TERMINALS

**1 position clip: LED block**




331ERAGH







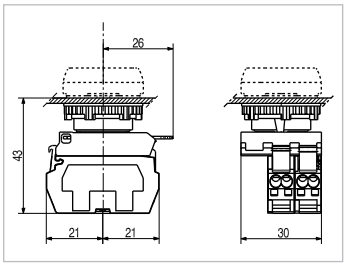
| | Cat. No. |
|---|---|
| **24 V** | |
| White | **331ERAWL** |
| Red | **331ERARL** |
| Green | **331ERAGL** |
| Blue | **331ERABL** |
| Yellow | **331ERAYL** |
| **130 V** | |
| White | **331ERAWM** |
| Red | **331ERARM** |
| Green | **331ERAGM** |
| Blue | **331ERABM** |
| Yellow | **331ERAYM** |
| **230 V** | |
| White | **331ERAWH** |
| Red | **331ERARH** |
| Green | **331ERAGH** |
| Blue | **331ERABH** |
| Yellow | **331ERAYH** |

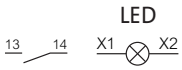
### PLUG-IN TERMINALS

**3 position clip: NO + LED block**




333ERAGL10




| | Cat. No. |
|---|---|
| **24 V** | |
| White | 333ERAWL10 |
| Red | 333ERARL10 |
| Green | 333ERAGL10 |
| Blue | 333ERABL10 |
| Yellow | 333ERAYL10 |
| **130 V** | |
| White | 333ERAWM10 |
| Red | 333ERARM10 |
| Green | 333ERAGM10 |
| Blue | 333ERABM10 |
| Yellow | 333ERAYM10 |
| **230 V** | |
| White | 333ERAWH10 |
| Red | 333ERARH10 |
| Green | 333ERAGH10 |
| Blue | 333ERABH10 |
| Yellow | 333ERAYH10 |

**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)

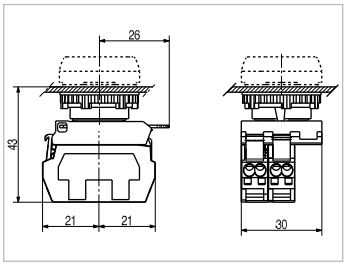
## ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

### PLUG-IN TERMINALS

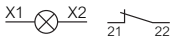
**3 position clip: LED block + NC**



333ERAGH01




LED



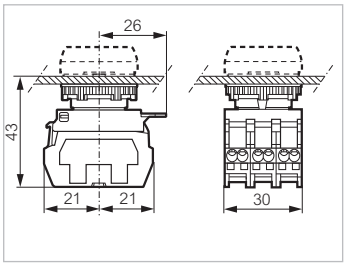

| | Cat. No. |
|---|---|
| **24 V** | |
| White | 333ERAWL01 |
| Red | 333ERARL01 |
| Green | 333ERAGL01 |
| Blue | 333ERABL01 |
| Yellow | 333ERAYL01 |
| **130 V** | |
| White | 333ERAWM01 |
| Red | 333ERARM01 |
| Green | 333ERAGM01 |
| Blue | 333ERABM01 |
| Yellow | 333ERAYM01 |
| **230 V** | |
| White | 333ERAWH01 |
| Red | 333ERARH01 |
| Green | 333ERAGH01 |
| Blue | 333ERABH01 |
| Yellow | 333ERAYH01 |

### PLUG-IN TERMINALS

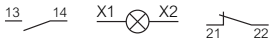
**3 position clip: NO + LED block + NC**



333ERAGH11




LED




| | Cat. No. |
|---|---|
| **24 V** | |
| White | 333ERAWL11 |
| Red | 333ERARL11 |
| Green | 333ERAGL11 |
| Blue | 333ERABL11 |
| Yellow | 333ERAYL11 |
| **130 V** | |
| White | 333ERAWM11 |
| Red | 333ERARM11 |
| Green | 333ERAGM11 |
| Blue | 333ERABM11 |
| Yellow | 333ERAYM11 |
| **230 V** | |
| White | 333ERAWH11 |
| Red | 333ERARH11 |
| Green | 333ERAGH11 |
| Blue | 333ERABH11 |
| Yellow | 333ERAYH11 |

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

# Separate units: Blocks sub-assemblies

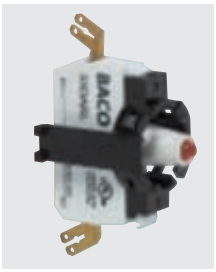
IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 21)
Mounting (p. 92)
Conform to IEC 60947-5-1

Characteristics (p. 94)

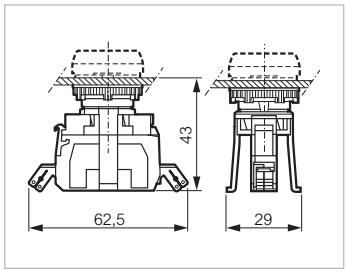
## ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

### FASTON TERMINALS

**1 position clip: LED block**



331EDARL



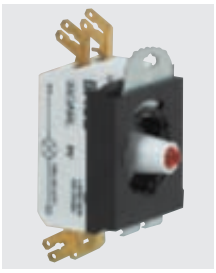

LED



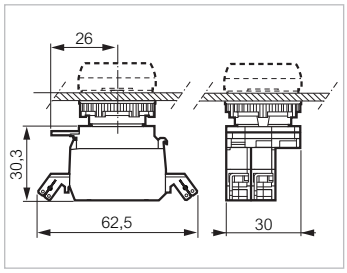

| | Cat. No. |
|---|---|
| **24 V** | |
| White | 331EDAWL |
| Red | 331EDARL |
| Green | 331EDAGL |
| Blue | 331EDABL |
| Yellow | 331EDAYL |
| **130 V** | |
| White | 331EDAWM |
| Red | 331EDARM |
| Green | 331EDAGM |
| Blue | 331EDABM |
| Yellow | 331EDAYM |
| **230 V** | |
| White | 331EDAWH |
| Red | 331EDARH |
| Green | 331EDAGH |
| Blue | 331EDABH |
| Yellow | 331EDAYH |

### FASTON TERMINALS

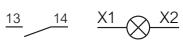
**3 position clip: NO + LED block**



333EDARL10




LED




| | Cat. No. |
|---|---|
| **24 V** | |
| White | 333EDAWL10 |
| Red | 333EDARL10 |
| Green | 333EDAGL10 |
| Blue | 333EDABL10 |
| Yellow | 333EDAYL10 |
| **130 V** | |
| White | 333EDAWM10 |
| Red | 333EDARM10 |
| Green | 333EDAGM10 |
| Blue | 333EDABM10 |
| Yellow | 333EDAYM10 |
| **230 V** | |
| White | 333EDAWH10 |
| Red | 333EDARH10 |
| Green | 333EDAGH10 |
| Blue | 333EDABH10 |
| Yellow | 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)

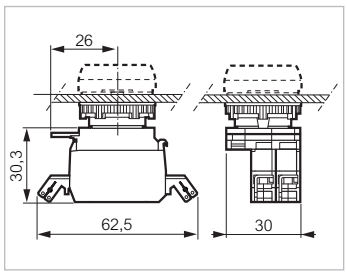
## ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

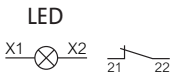
### FASTON TERMINALS

**3 position clip: LED block + NC**



333EDARM01



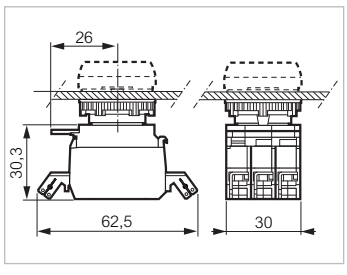

| | Cat. No. |
|---|---|
| **24 V** | |
| White | 333EDAWL01 |
| Red | 333EDARL01 |
| Green | 333EDAGL01 |
| Blue | 333EDABL01 |
| Yellow | 333EDAYL01 |
| **130 V** | |
| White | 333EDAWM01 |
| Red | 333EDARM01 |
| Green | 333EDAGM01 |
| Blue | 333EDABM01 |
| Yellow | 333EDAYM01 |
| **230 V** | |
| White | 333EDAWH01 |
| Red | 333EDARH01 |
| Green | 333EDAGH01 |
| Blue | 333EDABH01 |
| Yellow | 333EDAYH01 |

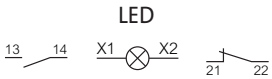
### FASTON TERMINALS

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



333EDARL11




| | Cat. No. |
|---|---|
| **24 V** | |
| White | 333EDAWL11 |
| Red | 333EDARL11 |
| Green | 333EDAGL11 |
| Blue | 333EDABL11 |
| Yellow | 333EDAYL11 |
| **130 V** | |
| White | 333EDAWM11 |
| Red | 333EDARM11 |
| Green | 333EDAGM11 |
| Blue | 333EDABM11 |
| Yellow | 333EDAYM11 |
| **230 V** | |
| White | 333EDAWH11 |
| Red | 333EDARH11 |
| Green | 333EDAGH11 |
| Blue | 333EDABH11 |
| Yellow | 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)

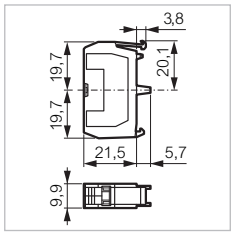
## ► CONTACT BLOCKS

### SCREW TERMINALS

Cat. No.



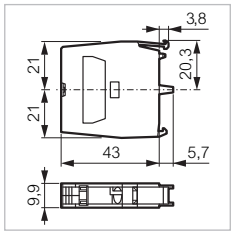
33E10




| | | |
|---|---|---|
| NO | 3 4 | **33E10** |
| NC | 1 2 | **33E01** |
| NO/NC | 2 1 4 3 | **33E11** |



33E11




**Golden contacts**
for low current

| | | |
|---|---|---|
| NO | 3 4 | **33E10Y7** |
| NC | 1 2 | **33E01Y7** |

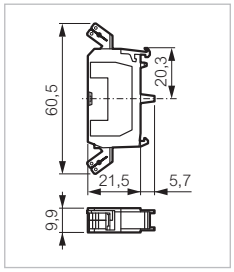
**Contact with delayed opening**

| | | |
|---|---|---|
| NC | 5 6 | **33E01C** |

### FASTON TERMINALS



33D01

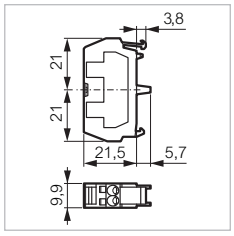



| | | |
|---|---|---|
| NO | 3 4 | **33D10** |
| NC | 1 2 | **33D01** |

### PLUG-IN TERMINALS



33R01




| | | |
|---|---|---|
| NO | 3 4 | **33R10** |
| NC | 1 2 | **33R01** |

**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)

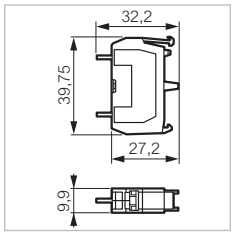
Characteristics (p. 94)

## ► CONTACT BLOCKS (CONTINUED)

### FOR PCB (PIN-STYLE TERMINALS)




33P10

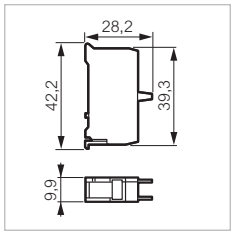



| | | Cat. No. |
|---|---|---|
| NO | 3 4 | **33P10** |
| NC | 1 2 | **33P01** |
| **Golden contacts** for low current | | |
| NO | 3 4 | **33P10Y7** |
| NC | 1 2 | **33P01Y7** |

### FOR CONTROL STATIONS (SCREW TERMINALS)




33S01




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

| | | |
|---|---|---|
| NO | 3 4 | **33S10** |
| NC | 1 2 | **33S01** |

**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)

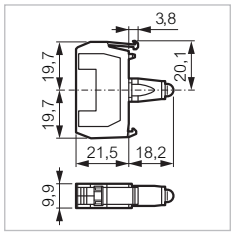
Characteristics (p. 94)

## ▶ LED BLOCKS

### SCREW TERMINALS



33EARL




LED




| | Cat. No. |
|---|---|
| **24 V** | |
| ○ White | **33EAWL** |
| ● Red | **33EARL** |
| ● Green | **33EAGL** |
| ● Blue | **33EABL** |
| ● Yellow | **33EAYL** |
| **48 V** | |
| ○ White | **33EAWL4** |
| ● Red | **33EARL4** |
| ● Green | **33EAGL4** |
| ● Blue | **33EABL4** |
| ● Yellow | **33EAYL4** |
| **130 V** | |
| ○ White | **33EAWM** |
| ● Red | **33EARM** |
| ● Green | **33EAGM** |
| ● Blue | **33EABM** |
| ● Yellow | **33EAYM** |
| **230 V** | |
| ○ White | **33EAWH** |
| ● Red | **33EARH** |
| ● Green | **33EAGH** |
| ● Blue | **33EABH** |
| ● Yellow | **33EAYH** |

# Separate units: Blocks

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

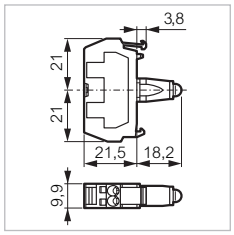
Characteristics (p. 94)

## ▶ LED BLOCKS (CONTINUED)

### PLUG-IN TERMINALS




33RAGH




LED

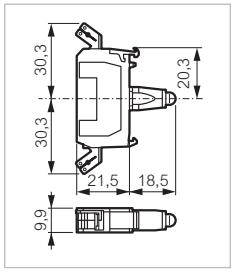
X1 ⊗ X2

| | Cat. No. |
|---|---|
| **24 V** | |
| ○ White | **33RAWL** |
| ● Red | **33RARL** |
| ● Green | **33RAGL** |
| ● Blue | **33RABL** |
| ● Yellow | **33RAYL** |
| **130 V** | |
| ○ White | **33RAWM** |
| ● Red | **33RARM** |
| ● Green | **33RAGM** |
| ● Blue | **33RABM** |
| ● Yellow | **33RAYM** |
| **230 V** | |
| ○ White | **33RAWH** |
| ● Red | **33RARH** |
| ● Green | **33RAGH** |
| ● Blue | **33RABH** |
| ● Yellow | **33RAYH** |

### FASTON TERMINALS




33DARL




LED

X1 ⊗ X2

| | Cat. No. |
|---|---|
| **24 V** | |
| ○ White | 33DAWL |
| ● Red | 33DARL |
| ● Green | 33DAGL |
| ● Blue | 33DABL |
| ● Yellow | 33DAYL |
| **130 V** | |
| ○ White | 33DAWM |
| ● Red | 33DARM |
| ● Green | 33DAGM |
| ● Blue | 33DABM |
| ● Yellow | 33DAYM |
| **230 V** | |
| ○ White | 33DAWH |
| ● Red | 33DARH |
| ● Green | 33DAGH |
| ● Blue | 33DABH |
| ● Yellow | 33DAYH |

**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)

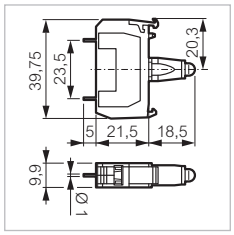
Characteristics (p. 94)

## ▶ LED BLOCKS (CONTINUED)

### FOR PCB (PIN STYLE)




33PAWL




LED




Cat. No.

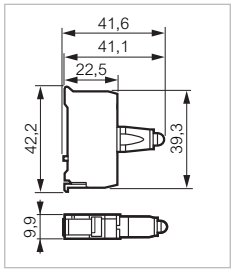
**24 V**

| | |
|---|---|
| ○ White | **33PAWL** |
| ● Red | **33PARL** |
| ● Green | **33PAGL** |
| ● Blue | **33PABL** |
| ● Yellow | **33PAYL** |

### FOR CONTROL STATIONS (SCREW TERMINALS)




33SAGH




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

LED




**24 V**

| | |
|---|---|
| ○ White | **33SAWL** |
| ● Red | **33SARL** |
| ● Green | **33SAGL** |
| ● Blue | **33SABL** |
| ● Yellow | **33SAYL** |

**130 V**

| | |
|---|---|
| ○ White | **33SAWM** |
| ● Red | **33SARM** |
| ● Green | **33SAGM** |
| ● Blue | **33SABM** |
| ● Yellow | **33SAYM** |

**230 V**

| | |
|---|---|
| ○ White | **33SAWH** |
| ● Red | **33SARH** |
| ● Green | **33SAGH** |
| ● Blue | **33SABH** |
| ● Yellow | **33SAYH** |

# Separate units: Blocks

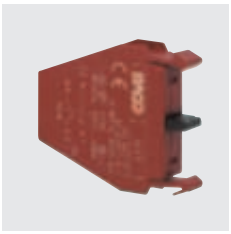
IP 20
To be combined with a 1, 3 or 5 position clip (p. 65)

Characteristics (p. 94)

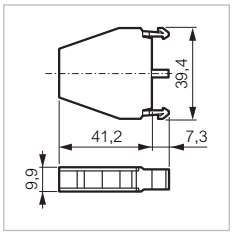
## ▶ SPECIFIC BLOCKS

### FOR JOYSTICKS (SCREW TERMINALS)

Cat. No.



LM11




Joysticks (p. 36)

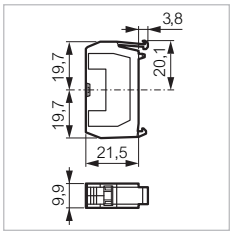
NO -NC 


**LM11**

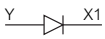
### LAMP-TEST BLOCKS (SCREW TERMINALS)



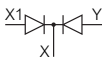
33ET




For 24 and 48 V

1 diod 


**33ET**

2 diods 

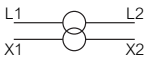

**33ETT**

**For 130 and 230 V (form p. 79)**

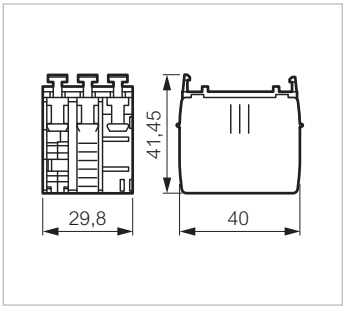
### TRANSFORMER BLOCKS (SCREW TERMINALS)



33EHC

230/24 V
400/24V 


**33EHC**
**33ELC**




**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)

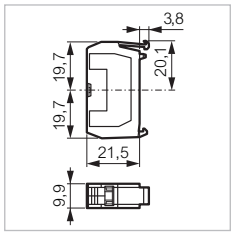
## SPECIFIC BLOCKS

### FILTER BLOCKS (SCREW TERMINALS)

Cat. No.




33EFH




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

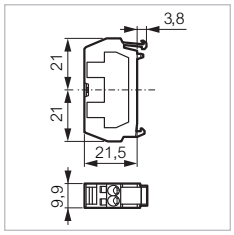
130 V **33EFM**
230 V **33EFH**




### FILTER BLOCKS (PLUG-IN TERMINALS)




33RFH




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

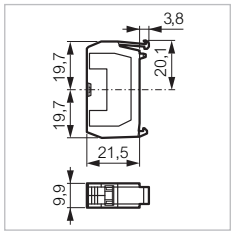
130 V **33RFM**
230 V **33RFH**




### JUNCTION BLOCK (SCREW TERMINALS)




33EY




2 interconnected terminals

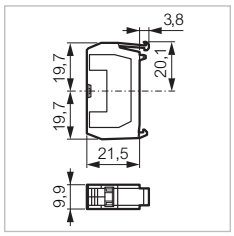



33EY

### EMPTY BLOCK




33EX




For empty positions on 3 or 5 position clip

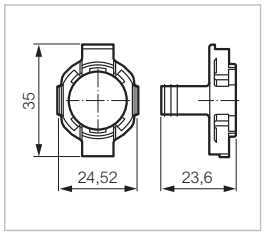
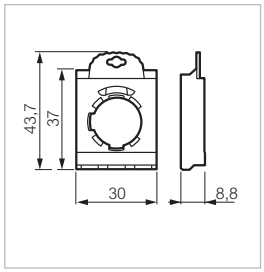
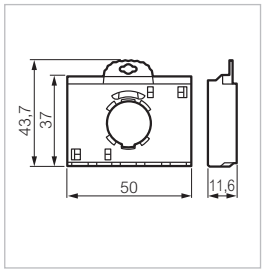
33EX

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

# Accessories

Characteristics (p. 94)

## CLIPS

| CLIPS | Cat. No. |
|---|---|
|  331E   | To be combined with blocks (p. 58 to 64)<br>1 position | **331E** |
|  333E   | 3 positions | **333E** |
|  335E   | 5 positions (only for ø 22 heads) | **335E** |

## ROUND LEGEND PLATE

| FOR MUSHROOM HEAD | Cat. No. |
|---|---|
|   LWE16300 | Yellow, black engraving |
| | **ø 60** |
| | ARRET D'URGENCE | **LWE16100** |
| | NOT AUS | **LWE16200** |
| | EMERGENCY STOP | **LWE16300** |
| | **ø 80** |
| | ARRET D'URGENCE | **LWE00100** |
| | NOT AUS | **LWE00200** |
| | EMERGENCY STOP | **LWE00300** |
| | **Other languages (form p. 79)** | |

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

# Accessories ø 22

Characteristics (p. 94)

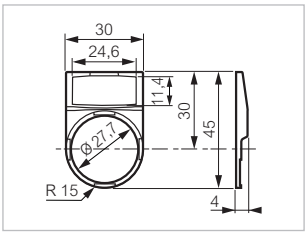
## ► COMPLETE FRAMES

**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 | **LWP35** |
| ● Red | **LWP31** |
| ● Alu | **LWP39** |
| ● Black | **LWP33** |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ○ White | LWP35⌊⌋⌊⌋⌊⌋ |
| ● Red | LWP31⌊⌋⌊⌋⌊⌋ |
| ● Alu | LWP39⌊⌋⌊⌋⌊⌋ |
| ● Black | LWP33⌊⌋⌊⌋⌊⌋ |

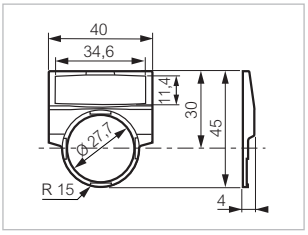
**Protective mask for legend plate (paper or other ...)**

| | |
|---|---|
| ○ 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 | **LWG35** |
| ● Red | **LWG31** |
| ● Alu | **LWG39** |
| ● Black | **LWG33** |

**On demand engraving (p. 70)**
Symbol code to be added at the end of the catalogue number

| | |
|---|---|
| ○ White | LWG35⌊⌋⌊⌋⌊⌋ |
| ● Red | LWG31⌊⌋⌊⌋⌊⌋ |
| ● Alu | LWG39⌊⌋⌊⌋⌊⌋ |
| ● Black | LWG33⌊⌋⌊⌋⌊⌋ |

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

| | |
|---|---|
| ○ Transparent | **LWG37** |

# Accessories ø 22

Characteristics (p. 94)

## LEGEND PLATES

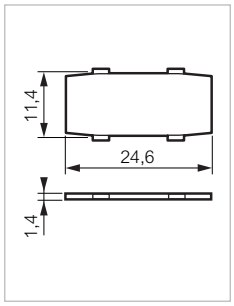
### TO BE ENGRAVED — Standard model



LIA5



LIA1




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

| | Cat. No. |
|---|---|
| **Without engraving** | |
| ○ White | **LIA5** |
| ● Red | **LIA1** |
| ● Alu | **LIA9** |
| ● Black | **LIA3** |
| **On demand engraving (p. 70)** | |
| Symbol code to be added at the end of the catalogue number | |
| ○ White - black engraving | LIA5⌊⌊⌊⌋ |
| ● Red - white engraving | LIA1⌊⌊⌊⌋ |
| ● Alu - black engraving | LIA9⌊⌊⌊⌋ |
| ● Black - white engraving | LIA3⌊⌊⌊⌋ |
| **Protective mask for legend plate (paper or other ...)** | |
| ○ Transparent | **LIA7** |

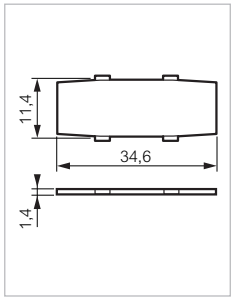
### TO BE ENGRAVED — Large model



LIB9



LIB3




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

| | Cat. No. |
|---|---|
| **Without engraving** | |
| ○ White | **LIB5** |
| ● Red | **LIB1** |
| ● Alu | **LIB9** |
| ● Black | **LIB3** |
| **On demand engraving (p. 70)** | |
| Symbol code to be added at the end of the catalogue number | |
| ○ White - black engraving | LIB5⌊⌊⌊⌋ |
| ● Red - white engraving | LIB1⌊⌊⌊⌋ |
| ● Alu - black engraving | LIB9⌊⌊⌊⌋ |
| ● Black - white engraving | LIB3⌊⌊⌊⌋ |
| **Protective mask for legend plate (paper or other ...)** | |
| ○ Transparent | **LIB7** |

# Accessories ø 22

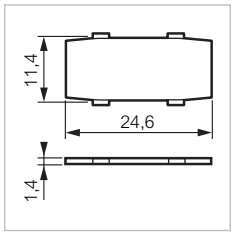
Characteristics (p. 94)

## ► 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**

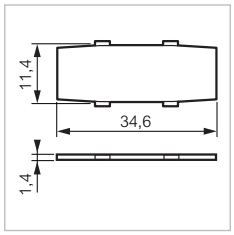
| | |
|---|---|
| O-I | **LIA9081** |
| I-II | **LIA9082** |
| I-O-II | **LIA9091** |
| MANU-O-AUTO | **LIA9191** |
| HAND-O-AUTO | **LIA9291** |
| START | **LIA9301** |
| ON | **LIA9303** |
| OFF | **LIA9304** |
| RESET | **LIA9315** |
| RUN | **LIA9327** |
| HAND-AUTO | **LIA9383** |

**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

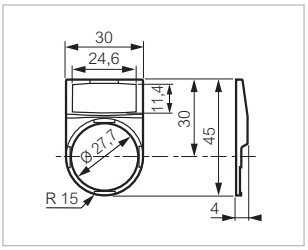
Characteristics (p. 94)

## FRAMES

| ROUND | Standard model | Cat. No. |
|---|---|---|



LWP3



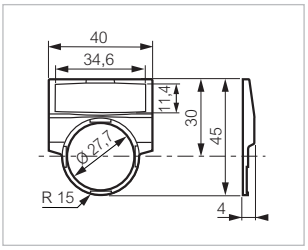

For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

● Black **LWP3**

| ROUND | Large model |
|---|---|



LWG3



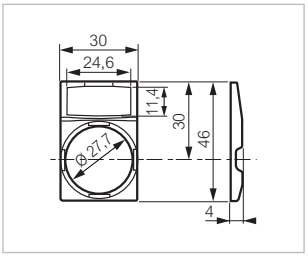

For legend plates cat. nos. LIB5, LIB1, LIB 9, LIB 3 (p. 67)

● Black **LWG3**

| SQUARE | Standard model |
|---|---|



LWP4



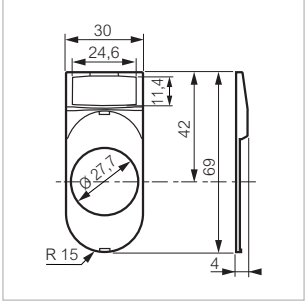

For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 67)

● 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**

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

# 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** | |
| 0-I | 081 |
| I-II | 082 |
| I-0-II | 091 |
| I-II-III | 092 |
| 0-I-START | 093 |
| 0-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 |
| BREMSEN | 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-0-AUTO | 291 |
| ZURÜCK-0-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 -0- ARRIÈRE | 192 |
| C.P.C.-NORMAL | 184 |
| HORS-EN | 182 |
| MANU-AUTO | 183 |
| MANU -0- 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<br>ISO 1 |  | A01 |
| Alternating straight-line movement<br>ISO 5 |  | A05 |
| Continuous rotating movement clockwise<br>ISO 7A - DIN 100 |  | A07 |
| Continuous rotating mov. anti-clockwise<br>ISO 7B |  | B07 |
| Forward<br>ISO 16 |  | A16 |
| Increase in value<br>ISO 28 |  | A28 |
| Decrease in value<br>ISO 29 |  | A29 |
| Adjustable<br>ISO 62 |  | A62 |
| Clamp, block apply pressure<br>ISO 63A |  | A63 |
| Clamp, block apply pressure<br>ISO 63B |  | B63 |
| Unclamp, release<br>ISO 64A |  | A64 |
| Unclamp, release<br>ISO 64B |  | B64 |
| Brake<br>ISO 65 |  | A65 |
| Release brake<br>ISO 66 |  | A66 |
| Automatic cycle (or semi-automatic)<br>ISO 67 |  | A67 |
| Manual control<br>ISO 68 |  | A68 |
| “ON” close circuit<br>ISO 69 |  | A69 |
| “STOP” close circuit<br>ISO 70 |  | A70 |
| ON/OFF close + open circuit<br>ISO 71 |  | A71 |
| Close circuit manual impulse<br>ISO 72 |  | A72 |
| Clutch<br>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<br>ISO 75 - DIN 45 |  | A75 |
| Warning “live” (energized)<br>ISO 92 - DIN 131 |  | A92 |
| Main switch<br>ISO 94 |  | A94 |
| Lubrification jet<br>ISO 101 |  | C01 |
| Machine lighting<br>ISO 102 - DIN 139 |  | C02 |
| Greasing<br>ISO 107 - DIN 175 |  | C07 |
| Blow<br>ISO 108 - DIN 263 |  | C08 |
| Suction<br>ISO 109 - DIN 264 |  | C09 |
| Sound alarm<br>DIN 155 |  | D01 |

## ADDITIONAL STANDARD SYMBOLS

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

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

# 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 **LWA0203**
● Green opaque **LWA0204**
● Black opaque **LWA0205**

### FOR PUSH-BUTTONS FLUSH



LWA0253

**For spring return or stay-put buttons**

○ Transparent **LWA0255**

**For non illuminated spring return buttons**

● Red opaque **LWA0251**
● Green opaque **LWA0252**
● Black opaque **LWA0253**

### DOUBLE TOUCH



LWA0223

For double touch flush-projecting and triple touch

○ Transparent **LWA0223**

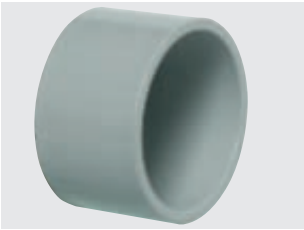
# Accessories ø 22

Characteristics (p. 94)

## MISCELLANEOUS

### GUARD

Cat. No.



LWA0225

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

● Grey **LWA0225**

### PADLOCKABLE GUARD



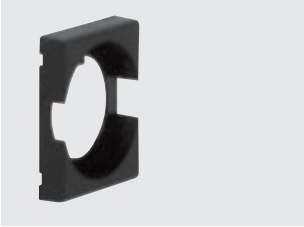
LWA0240

For stay-put mushroom head

● Yellow

High (Height: 40 mm) **LWA0240**

### SQUARE FRAME

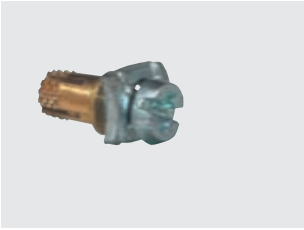


LWA0230

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.



LWDN230

For one-piece pilot light with direct supply
Bulb BA9S (see p. 45)

Neon 230 V
For red, yellow, white pilot light — **LWDN230**

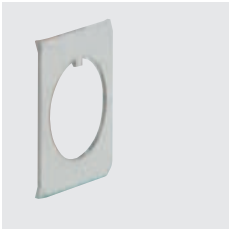
### BULB EXTRACTOR



LWA0201

For BA9S bulbs — **LWA0201**

### ANTI-ROTATION RING



LWA0237

For selector switches — **LWA0237**

### BLANKING PLUG



LWA0229

- Black — **LWA0229**
- Grey — **LWA0215**

# Accessories ø 22

Characteristics (p. 94)

## MISCELLANEOUS (CONTINUED)

### FIXING TOOL

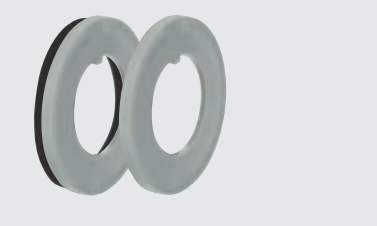
Cat. No.



LWA0234

Fixing tool for locking ring **LWA0234**

### REDUCTION RING Ø 30/22

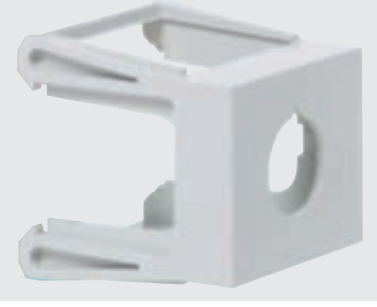


LWA0219

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**

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

BACO

# Request form for specific control and signalling units ø 22

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

**Type :**


❑ Spring return flush


❑ Spring return super flush


❑ Spring return projecting


❑ Mushroom head spring return


❑ Push-push stay-put
❑ Flush
❑ Projecting


❑ Push-push super flush


❑ Mushroom head push-pull stay-put


❑ Mushroom head push-pull with flag indicator


❑ Mushroom head push-turn stay-put


❑ Mushroom head with key


❑ Selector switch handle


❑ Selector switch with long handle


❑ Selector switch with key
❑ 455
❑ 1424 A
❑ Other .....


❑ Knob selector switch


❑ Double touch
❑ flush-flush
❑ flush-proj.
❑ Triple touche


❑ Mechanical actuator
❑ Flush
❑ Projecting


❑ Pilot light


❑ One-piece pilot light
❑ LED (specify colour, voltage)
❑ Bags

**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

## BLOCKS AND CLIPS

**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

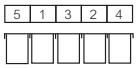
**Connection :**

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

**Clips :**

❑ 1 position 


❑ 3 positions 


❑ 5 positions 


❑ 6 positions 


**Options :**

❑ Head, block and clip assembled

## YOUR DETAILS

Company: .....

.....

.....

Name and surname: .....

.....

Address: .....

.....

.....

E-mail : .....

Tel.: .....

Fax: .....

## COMMENTS

## ENGRAVING

## SELECTOR SWITCHES' SWITCHING ANGLE




❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑

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

# 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)

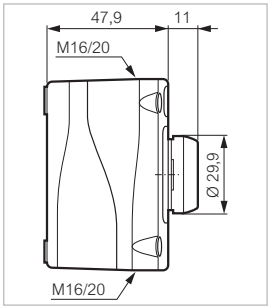
Characteristics (p. 94)

## ► CONTROL STATIONS WITH 1 BUTTON - NON ILLUMINATED

### SPRING RETURN - FLUSH



LBX10110

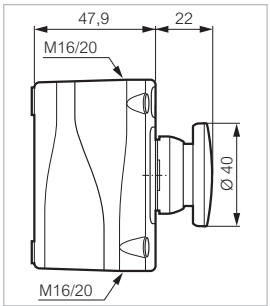



| | | | Marking | Cat. No. |
|---|---|---|---|---|
| ● Green | NO | 13 14 | Ⓘ | **LBX10110** |
| ● Red | NC | 21 22 | ◎ | LBX10610 |

### MUSHROOM HEAD Ø 40 - SPRING RETURN



LBX10210

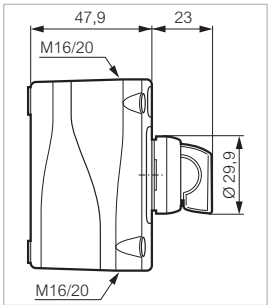



| | | | Marking | |
|---|---|---|---|---|
| ● Red | NC | 21 22 | ◎ | **LBX10210** |

### SELECTOR SWITCH - WITH HANDLE



LBX12510




2 stay-put positions - 45°

| | | | Marking | |
|---|---|---|---|---|
| ● Black | NO | 13 14 | ○ I | **LBX12510** |

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

# 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)

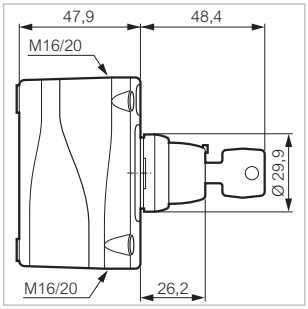
## ► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

### 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

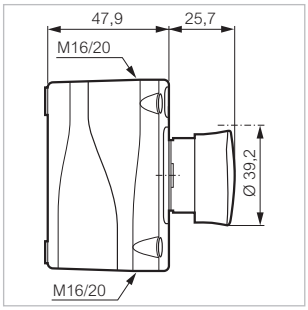
| Marking | | | | |
|---|---|---|---|---|
| ● Black | NO | 13 14 | O I | LBX12610 |

### MUSHROOM HEAD Ø 40 - STAY-PUT

**Push-turn to reset**



LBX10510




| | | | | |
|---|---|---|---|---|
| ● Red | NC | 21 22 | ARRÊT D'URGENCE | LBX10310 |
| ● Red | NC | 21 22 | NOT AUS | **LBX10410** |
| ● Red | NC | 21 22 | EMERGENCY STOP | **LBX10510** |

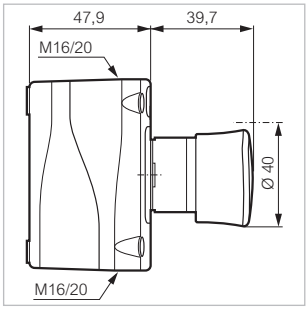
Contact blocks fixed behind cover (form p. 90)

### 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 | ARRÊT D'URGENCE | LBX17101 |
| ● Red | 2 NC | 11 12 21 22 | ARRÊT D'URGENCE | LBX17102 |
| ● Red | NC | 21 22 | NOT AUS | LBX17201 |
| ● Red | 2 NC | 11 12 21 22 | NOT AUS | LBX17202 |
| ● Red | NC | 21 22 | EMERGENCY STOP | **LBX17301** |
| ● Red | 2 NC | 11 12 21 22 | EMERGENCY STOP | **LBX17302** |

Contact blocks fixed behind cover (form p. 90)

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

# 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)

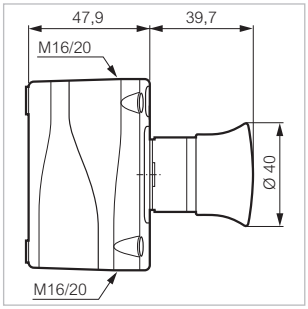
Characteristics (p. 94)

## ► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

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



LBX15101




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

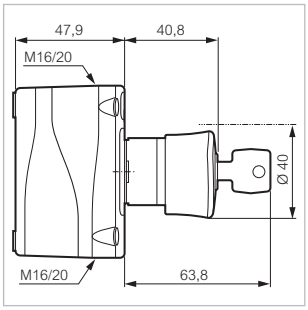
| | | | | Cat. No. |
|---|---|---|---|---|
| ● Red | NC | 21 22 | ARRÊT D'URGENCE | LBX15101 |
| ● Red | 2 NC | 11 12 21 22 | ARRÊT D'URGENCE | LBX15102 |
| ● Red | NC | 21 22 | NOT AUS | LBX15201 |
| ● Red | 2 NC | 11 12 21 22 | NOT AUS | LBX15202 |
| ● Red | NC | 21 22 | EMERGENCY STOP | **LBX15301** |
| ● Red | 2 NC | 11 12 21 22 | 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

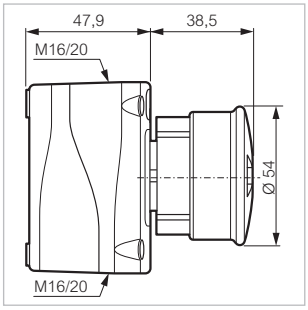
| | | | | |
|---|---|---|---|---|
| ● Red | NC | 21 22 | ARRÊT D'URGENCE | LBX11101 |
| ● Red | 2 NC | 11 12 21 22 | ARRÊT D'URGENCE | LBX11102 |
| ● Red | NC | 21 22 | NOT AUS | LBX11201 |
| ● Red | 2 NC | 11 12 21 22 | NOT AUS | LBX11202 |
| ● Red | NC | 21 22 | EMERGENCY STOP | LBX11301 |
| ● Red | 2 NC | 11 12 21 22 | 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 | 21 22 | STOP - Ⓘ | **LBX14201** |
| ● Red | 2 NC | 11 12 21 22 | STOP - Ⓘ | LBX14202 |

Contact blocks fixed behind cover (form p. 90)

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

# 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)

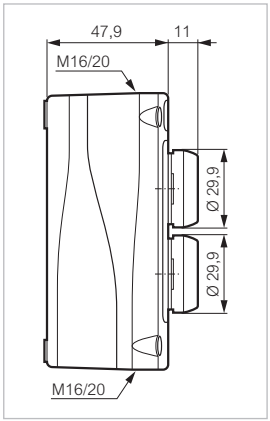
## CONTROL STATIONS WITH 2 BUTTONS

**SPRING RETURN - FLUSH**

Cat. No.



LBX20120




| | | | Marking | |
|---|---|---|---|---|
| ● Green | NO | 13 14 | I | |
| ● Red | NC | 21 22 | O | **LBX20120** |

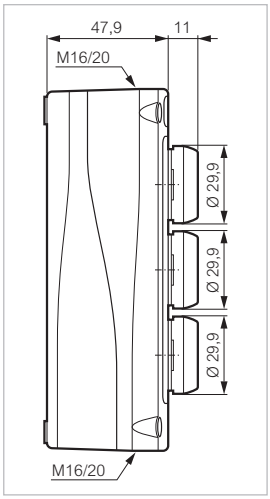
## CONTROL STATIONS WITH 3 BUTTONS

**SPRING RETURN - FLUSH**

Cat. No.



LBX30430




| | | | | |
|---|---|---|---|---|
| ● Green | NO | 13 14 | ↑ | |
| ● Red | NC | 21 22 | O | |
| ● Green | NO | 13 14 | ↓ | **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

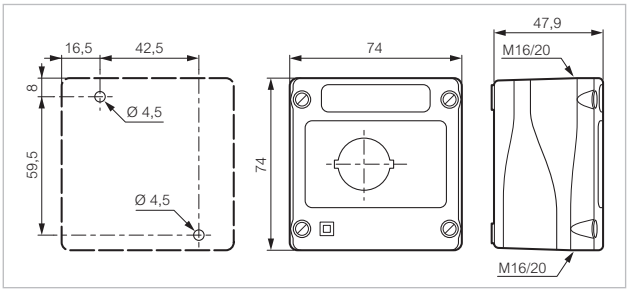
Cat. No.



LBX0100J

**Black base**

- Grey cover — **LBX0100**
- Yellow cover — **LBX0100J**




### 2 HOLES

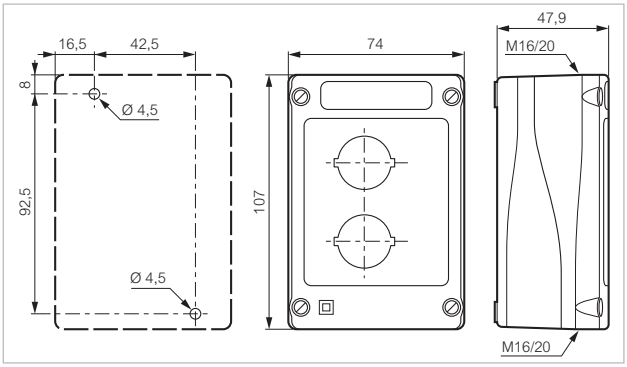
Cat. No.



LBX0200

**Black base**

- Grey cover — **LBX0200**
- Yellow cover — 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

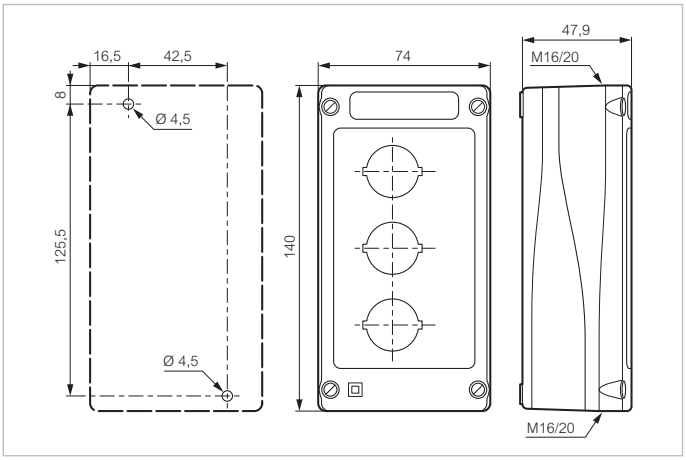
Cat. No.



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**

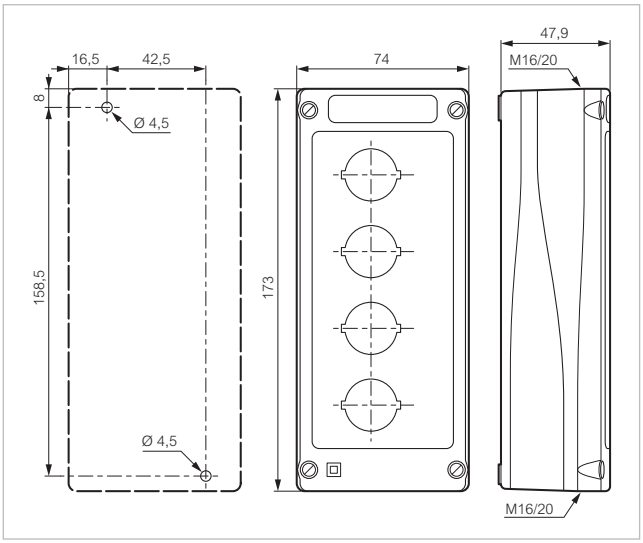
Cat. No.



LBX0400

**Black base**

- Grey cover — **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**

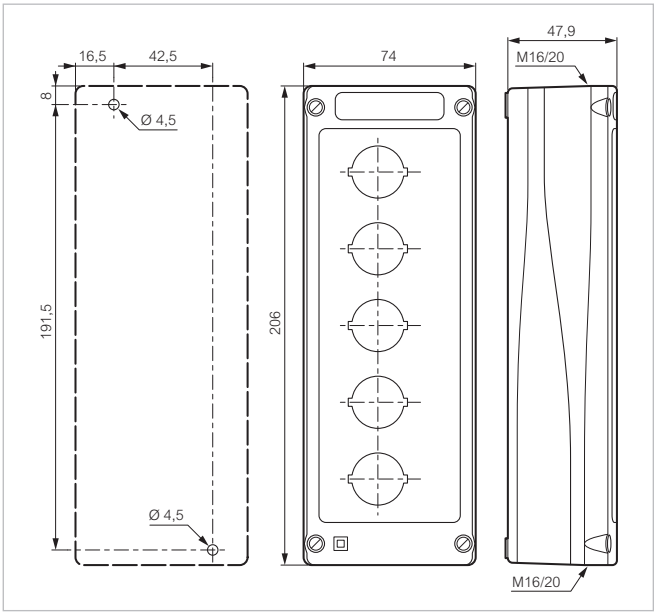
Cat. No.



LBX0500

**Black base**

- Grey cover — **LBX0500**



BACO

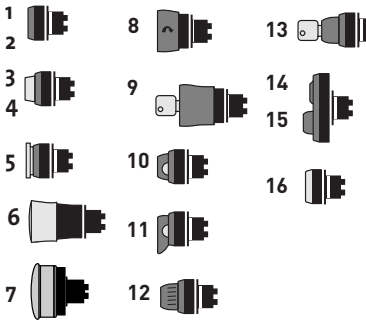
# Request form for specific control station ø 22

## EQUIPPED CONTROL STATION (fill in one form for each type of product)

**Mounting:** ❑ horizontal ❑ vertical

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

**Choice of head:** (write the corresponding number in the table)




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

Please fill in the table below

| | Heads | | | | | | | | | | | | | | | | Blocks | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Colour | | | | | | Bezel | | | | | | | | | | | LED Voltage | | |
| | Head no. | Illuminated | Green | Black | Red | White | Blue | Yellow | Black plastic | Matt chromed | Extended | IP 67 shroud | Ø 54 | Ø 40 | Ø 32 | EN 418/ISO 13850 | NO | NC | illuminated with LED | 24 V | 130 V | 230 V |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

❑ Earth terminal ❑ Contact fixed behind the cover

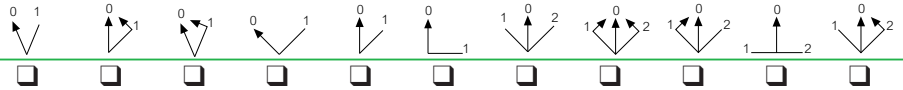
**Marking:**

❑ Function Max. 14 characters on 1 line

| ❑ On head | ❑ On control station(1) | ❑ On legend plate(2) | Colour: Black | Red | Alu | White |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

(1) 3 characters on 3 lines for vertical marking and max. 13 characters on 2 lines for horizontal marking
(2) max. 2 lines of 6 characters

## SELECTOR SWITCHES' SWITCHING ANGLE




❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑ ❑

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

Specify the concerned buttons: .....

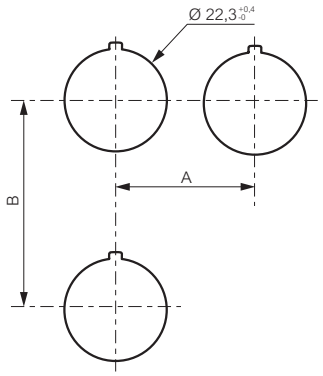
## YOUR DETAILS

Company: .....
.....
.....
Name and surname: .....
.....
Address: .....
.....
.....
E-mail : .....
Tel.: .....
Fax: .....

## COMMENTS

# Panel cut-out

## DRILLING

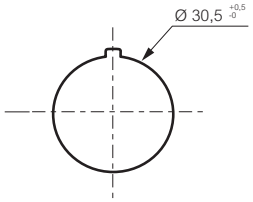



For heads equipped with electrical blocks with screw or plug-in terminals

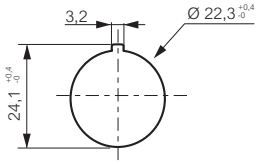
**Minimum interval (mm)**

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

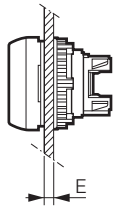
## DRILLING FOR SUPER-FLUSH BUTTON




## DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



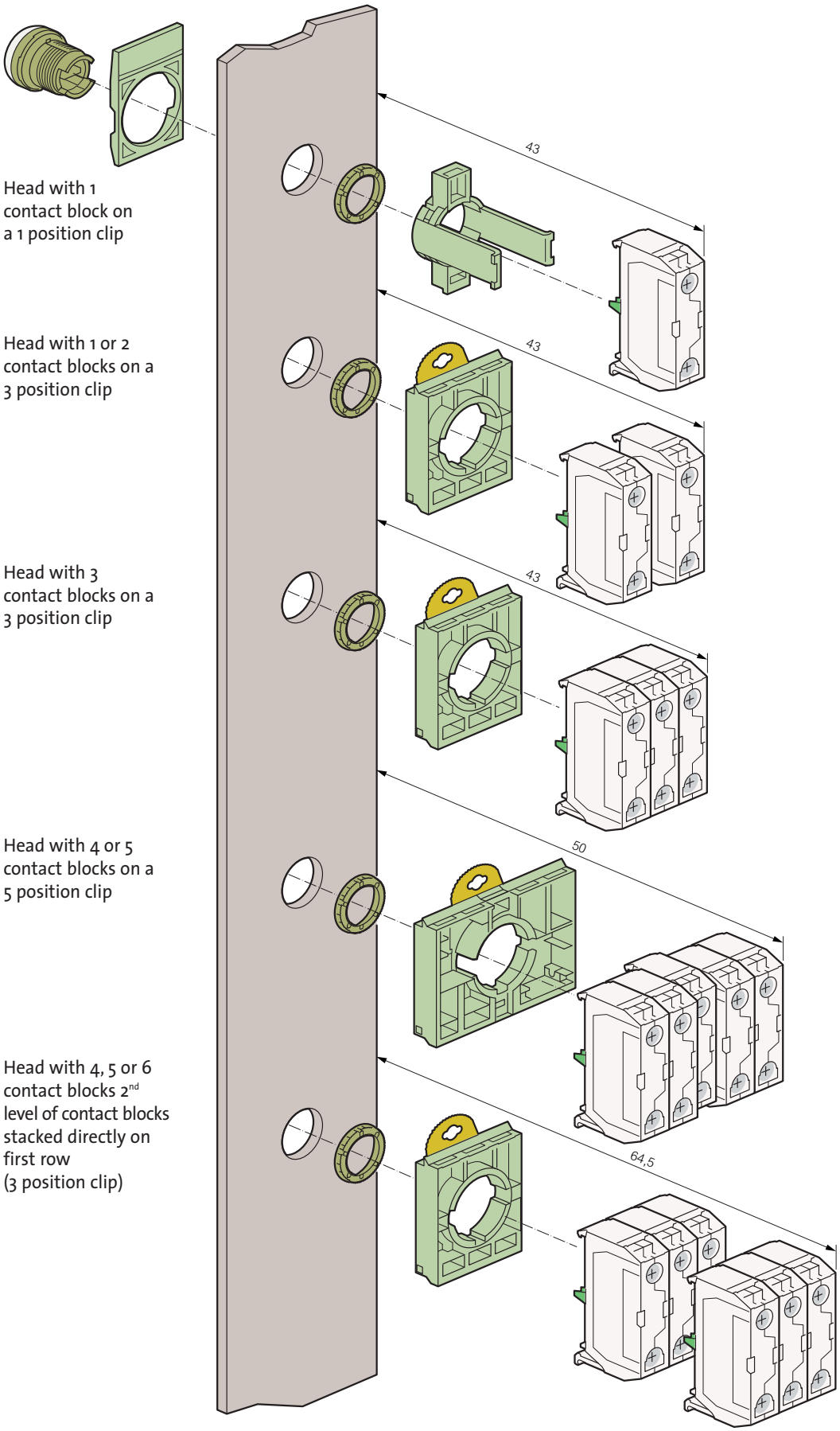

## THICKNESS OF PANEL (E)




E = 1 to 6 mm

# Mounting blocks ø 22

## NON ILLUMINATED




Head with 1 contact block on a 1 position clip

Head with 1 or 2 contact blocks on a 3 position clip

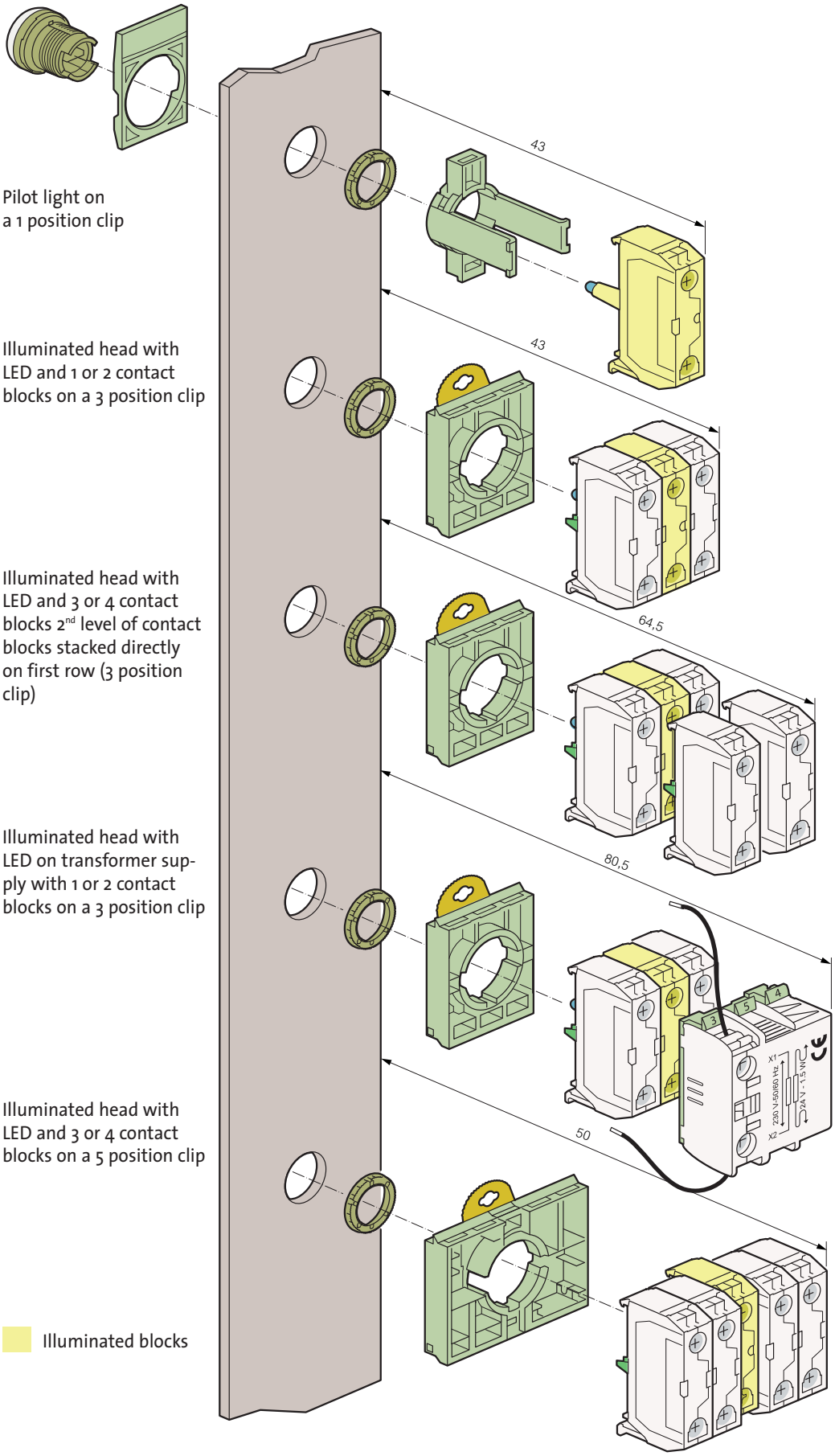
Head with 3 contact blocks on a 3 position clip

Head with 4 or 5 contact blocks on a 5 position clip

Head with 4, 5 or 6 contact blocks 2nd level of contact blocks stacked directly on first row (3 position clip)

# Mounting blocks ø 22

## ILLUMINATED




Pilot light on a 1 position clip

Illuminated head with LED and 1 or 2 contact blocks on a 3 position clip

Illuminated head with LED and 3 or 4 contact blocks 2nd level of contact blocks stacked directly on first row (3 position clip)

Illuminated head with LED on transformer supply with 1 or 2 contact blocks on a 3 position clip

Illuminated head with LED and 3 or 4 contact blocks on a 5 position clip

Illuminated blocks

# 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<br>Cyclic damp heat<br>Resistance to sea air | IEC 60068-2-3<br>IEC 60068-2-30<br>IEC 60068-2-52 |
| Degree of protection | IP 66 for standard heads<br>IP 67 for shrouded heads<br>IP 66 for equipped control stations<br>IP 20 at the rear of the panel for contact blocks and one piece pilot lights<br>Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations | IEC 60529<br><br><br><br>NEMA standard |
| Protection against mechanical impacts | IK 05 illuminated and non illuminated heads<br>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<br>terminals: max. 1.2 N.m | |
| Approvals | UL United states and Canada<br>BV Bureau Véritas<br>Certification OC/CB | UL 508, CSA 22.2<br>Marine rules<br>IEC 60947-5-1<br>IEC 60947-5-5<br>IEC 60947-5-4 |
| Vibrations | withstand vibration<br>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<br>600 V AC | | IEC 60947-1<br>UL 508 |
| NC contacts | Positive opening | | IEC 60947-5-1 |
| Rated impulse voltage Uimp<br>Pollution degree | 6kV<br>3 | | |
| Conventional thermal current in free air conditions | AC15: 10 A<br>DC13: 2,5 A | | IEC 60947-5-1 |
| Electrical ratings | **Alternating current**<br>AC15 - A 600<br>Ue = 120 V, Ie = 6 A<br>Ue = 240 V, Ie = 3 A<br>Ue = 380 V, Ie = 1,9 A<br>Ue = 480 V, Ie = 1,5 A<br>Ue = 500 V, Ie = 1,4 A<br>Ue = 600 V, Ie = 1,2 A<br><br>**Minimum operating current**<br>- standard blocks<br>Ue = 24 V DC and Ie = 5 mA<br>Failure rate < $10^{-8}$ | **Direct current**<br>DC13 - Q 600<br>Ue = 125 V, Ie = 0,55 A<br>Ue = 250 V, Ie = 0,27 A<br>Ue = 400 V, Ie = 0,15 A<br>Ue = 500 V, Ie = 0,13 A<br>Ue = 600 V, Ie = 0,1 A<br><br><br><br>- golden contacts<br>Ue = 5 V DC and Ie = 1 mA<br>Failure rate < $10^{-8}$ | IEC 60947-5-1 |
| Electrical operating life | **1 million cycles for:**<br>- AC15 - B 300<br>Ue = 120 V, Ie = 3 A<br>Ue = 240 V, Ie = 1,5 A | <br>- DC13 - R 300<br>Ue = 125 V, Ie = 0,22 A<br>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 $mm^2$<br>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<br>300 V AC | | IEC 60947-1<br>UL 508 |
| NC contacts | Positive opening | | IEC 60947-5-1 |
| Rated impulse withstanding voltage Uimp<br>Pollution degree | 6 kV<br>3 | | |
| Conventional thermal current in free air conditions | AC 15: 10 A<br>DC 13: 2,5 A | | IEC 60947-5-1 |
| Electrical ratings | **Alternating current**<br>AC15 - A 300<br>Ue = 120 V, Ie = 6 A<br>Ue = 240 V, Ie = 3 A<br><br>**Minimum current of use**<br>Ue = 24 V DC and Ie = 5 mA<br>Failure rate < $10^{-8}$ | **Direct current**<br>DC13 - Q 300<br>Ue = 125 V, Ie = 0,55 A<br>Ue = 250 V, Ie = 0,27 A | IEC 60947-5-1 |
| Electrical operating life | **1 million cycles for:**<br>- AC15 - B 300<br>Ue = 120 V, Ie = 3 A<br>Ue = 240 V, Ie = 1,5 A | <br>- DC13 - R 300<br>Ue = 125 V, Ie = 0,22 A<br>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<br>250 V AC | | IEC 60947-1<br>UL 508 |
| NC contacts | Positive opening | | IEC 60947-5-1 |
| Rated impulse withstanding voltage Uimp<br>Pollution degree | 4 kV<br>3 | | |
| Conventional thermal current in free air conditions | AC 15: 5 A<br>DC 13: 1 A | | IEC 60947-5-1 |
| Electrical ratings | **Alternating current**<br>AC 15 - B 300<br>Ue = 120 V, Ie = 3 A<br>Ue = 240 V, Ie = 1,5 A<br><br>**Minimum current of use**<br>- standard blocks<br>Ue = 24 V DC and Ie = 5 mA<br>Failure rate < $10^{-8}$ | **Direct current**<br>DC13 - R 300<br>Ue = 125 V, Ie = 0,22 A<br>Ue = 250 V, Ie = 0,1 A<br><br><br>- golden contacts<br>Ue = 5 V DC and Ie = 1 mA<br>Failure rate < $10^{-8}$ | IEC 60947-5-1<br><br>IEC 60947-5-4 |
| Electrical operating life | **1 million cycles for:**<br>- AC15 - B 300<br>Ue = 120 V, Ie = 3 A<br>Ue = 240 V, Ie = 1,5 A | <br>- DC13 - R 300<br>Ue = 125 V, Ie = 0,22 A<br>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<br>Pollution degree | 4 kV (with filter block see p. 64)<br>3 | IEC 60947-1 |
| Operating voltage | 12 to 24 V AC/DC<br>48 V AC/DC (for LED block)<br>130 V AC<br>230 V AC | |
| Frequency | 50 or 60 Hz | |
| Lifetime at rated supply voltage | Red and yellow: 100 000 hours at 25 °C<br>Other colours: 50 000 hours at 25 °C | |
| Consumption of LED blocks | Voltage:<br>- 24 V: 25 mA ± 20%<br>- 48 V: 15 mA ± 5%<br>- 130 V: 20 mA ± 10%<br>- 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.<br>240 V max. - 2,6 W max. | IEC 60947-5-1<br>UL 508 |

## HEADS

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

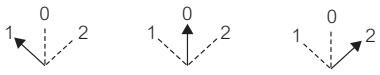
The EN 418/ISO 13850 mushroom heads also comply with the safety requirements detailed in standards EN 418 and ISO 13850.

# Diagrams

## MECHANICAL OPERATION

For 3 position selector switches

**Handle position**
(View from front of panel)




**Contacts block actuation**
(View from front of panel)



**Back side view**

Non operated block



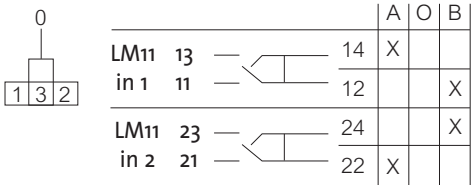
Operated block



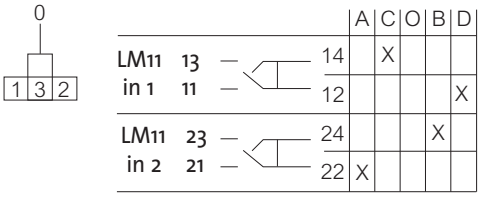
## MECHANICAL OPERATION

For Joysticks

**2 positions**

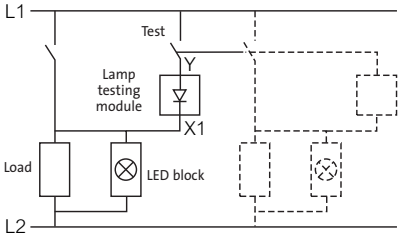



**4 positions**

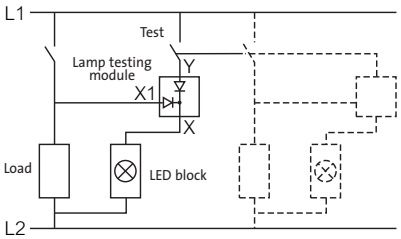



## PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

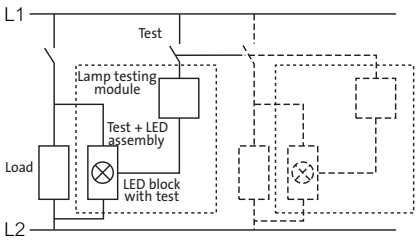
Lamp-testing module with
1 diode (33ET) for direct
supply 24 V and 48V




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

