

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

| | | | |
|-----------------------------|---------------------------------|--------------------------------|---------------------------|
| Алматы (7273)495-231 | Казань (843)206-01-48 | Новокузнецк (3843)20-46-81 | Смоленск (4812)29-41-54 |
| Архангельск (8182)63-90-72 | Калининград (4012)72-03-81 | Новосибирск (383)227-86-73 | Сочи (862)225-72-31 |
| Астрахань (8512)99-46-04 | Калуга (4842)92-23-67 | Омск (3812)21-46-40 | Ставрополь (8652)20-65-13 |
| Барнаул (3852)73-04-60 | Кемерово (3842)65-04-62 | Орел (4862)44-53-42 | Сургут (3462)77-98-35 |
| Белгород (4722)40-23-64 | Киров (8332)68-02-04 | Оренбург (3532)37-68-04 | Тверь (4822)63-31-35 |
| Брянск (4832)59-03-52 | Краснодар (861)203-40-90 | Пенза (8412)22-31-16 | Томск (3822)98-41-53 |
| Владивосток (423)249-28-31 | Красноярск (391)204-63-61 | Пермь (342)205-81-47 | Тула (4872)74-02-29 |
| Волгоград (844)278-03-48 | Курск (4712)77-13-04 | Ростов-на-Дону (863)308-18-15 | Тюмень (3452)66-21-18 |
| Вологда (8172)26-41-59 | Липецк (4742)52-20-81 | Рязань (4912)46-61-64 | Ульяновск (8422)24-23-59 |
| Воронеж (473)204-51-73 | Магнитогорск (3519)55-03-13 | Самара (846)206-03-16 | Уфа (347)229-48-12 |
| Екатеринбург (343)384-55-89 | Москва (495)268-04-70 | Санкт-Петербург (812)309-46-40 | Хабаровск (4212)92-98-04 |
| Иваново (4932)77-34-06 | Мурманск (8152)59-64-93 | Саратов (845)249-38-78 | Челябинск (351)202-03-61 |
| Ижевск (3412)26-03-58 | Набережные Челны (8552)20-53-41 | Севастополь (8692)22-31-93 | Череповец (8202)49-02-64 |
| Иркутск (395)279-98-46 | Нижний Новгород (831)429-08-12 | Симферополь (3652)67-13-56 | Ярославль (4852)69-52-93 |
| Россия (495)268-04-70 | Киргизия (996)312-96-26-47 | Казахстан (7172)727-132 | |

Panel Actuators and Indicators

Type PB

Key Selector Switches



- Ø 22mm (Ø0.87") with Standard key
- Two and three positions
- cULus and CE
- IEC/EN 60947-5-1, UL 508



PB 22S

Product description

Key selector switches are mechanical switches that can be turned right, center or left to open or to close the electric contacts. Mostly used to switch between two/three circuits. When the key is pulled-out no any other action can be done. They should be ordered in parts (operator + holder + contact block) and installed in an enclosure.

Ordering key

PB 22S KRS 31 KC

Series _____
 Dimension and Style _____
 Type _____
 Action _____
 Key extraction position _____

Approvals



Dimensions and styles

22S = Ø22mm (Ø0.87") Standard style

Types

KRS = Key selector switch

Actions

21 = Two positions L R
 31 = Three positions L C R

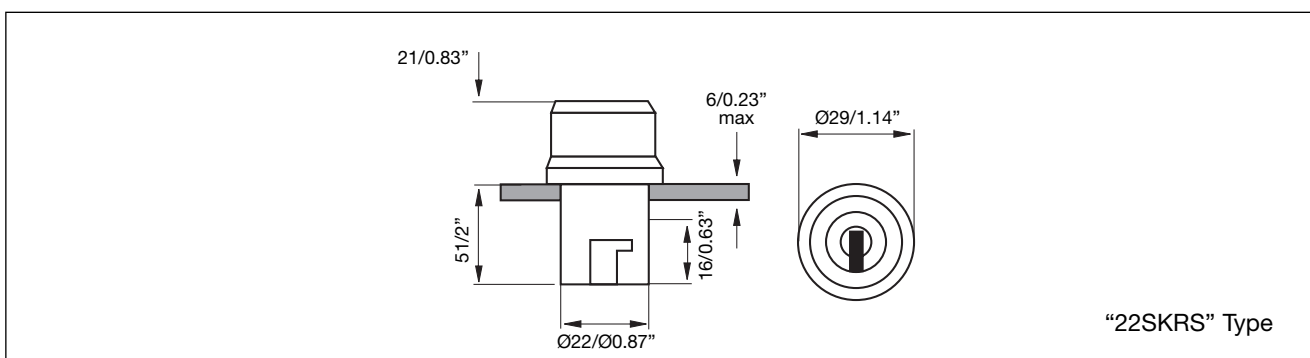
Key extraction position

KL = on the left position
 KC = on the center position
 KR = on the right position


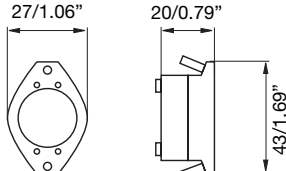

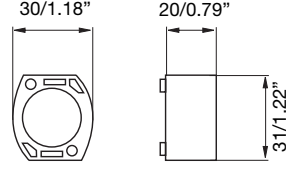

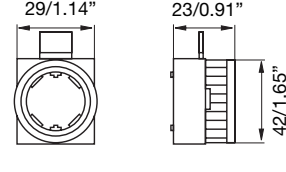
General data

| | |
|------------------------|------------------------------|
| Peripheral of actuator | AL |
| Actuator | Pa |
| Mechanical life | ≥ 5 x 10 ⁴ cycles |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |
| Degree of protection | IP 65 |

Dimensions - Push Buttons mm/inches

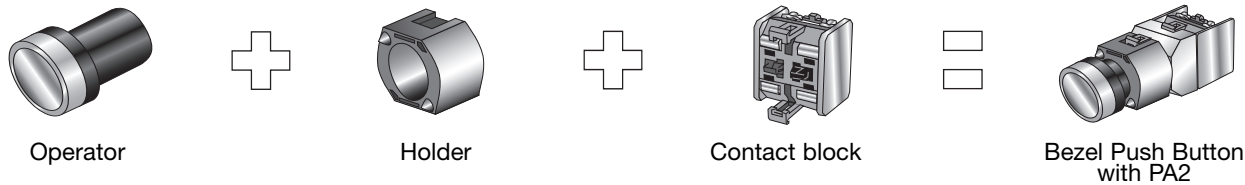


Holders

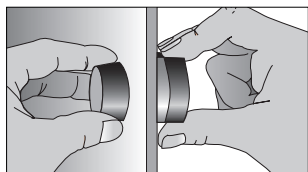
| | | | |
|---|------------------------|--|--|
|  | Holder type "M" | <p>Code PB MB M</p> <p>Material Zn + PBT</p> |  |
|  | Holder type "P" | <p>Code PB MB P</p> <p>Material PBT</p> |  |
|  | Holder type "N" | <p>Code PB MB N</p> <p>Material PC</p> |  |

Assembling and Mounting

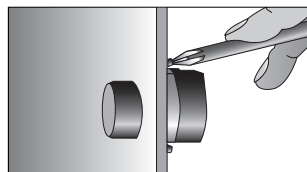
It come easy to get a complete product. Just to choose the operator, the holder, the lamp element and the contact block (up to 3).



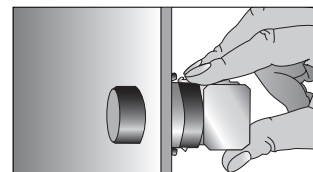
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.









The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuators

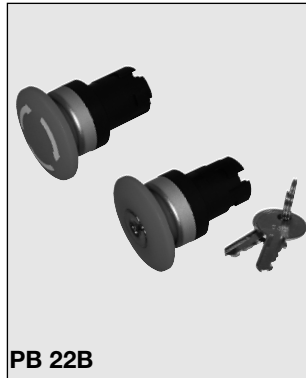
| | | | | |
|--|-------------------------------------|--|---------------|--|
|  | Terminal shield | Installed behind the wiring screws of the contact block to avoid electric shock. | PC | PA 2 SHIELD |
|  | Mounting ring Ø22mm (0.87") | Installed on plastic panel to strengthen mounting. | FE | PA MR 22 |
|  | Mounting ring Ø25mm (0.98") | When the mounting hole is Ø25mm (0.98"), it should be add to the panel. | FE | PA MR 25 |
|  | Label frame | Hang it on the push button or pilot light, for symbol or text explanation. | PC | 10mm/0.39" PA LBF 11 18mm/0.71" PA LBF 18 |
|  | Yellow protection ring | To protect button and to prevent strike or mistaking operation. | ABS Rubber | Ø40mm/Ø1.57" PA YPR 4 Ø60mm/Ø2.36" PA YPR 6 |
|  | Panel hole cap Ø22mm (0.87") | For blocking up prepared or useless holes on the panels. | ABS | PA PHC 22 |

Panel Actuators and Indicators

Type PB

Red Emergency Stop Push Buttons

CARLO GAVAZZI



- Ø 22mm (Ø0.87") Standard and bezel style
- Mushroom shape
- Push to lock, turn clockwise to reset
- Push to lock, unlock by turning the key
- Ø 40mm (Ø1.57") or Ø 60mm (Ø2.36") head
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529
- According to EN ISO 13850
- IEC/EN 60947-5-5

Product description

The STOP function is obtained by pushing the head while the reset is obtained by turning clockwise the head or the key. It is used in dangerous situations

when emergency measures are required. They should be ordered in parts (operator + holder + contact block) and installed in an enclosure.

Ordering key

PB 22S EM4 1 R

Series _____
 Dimension and Style _____
 Type _____
 Action _____
 Colour _____

Approvals



Dimensions and styles

22S = Ø22mm (Ø0.87") Standard style
 22B = Ø22mm (Ø0.87") Bezel style

Types

- EM4 = Red emergency stop Ø40mm (Ø1.57")
 EM6 = Red emergency stop Ø60mm (Ø2.36")
 KEM4 = Red key-reset emergency stop Ø40mm (Ø1.57")

Action

1 = Maintained

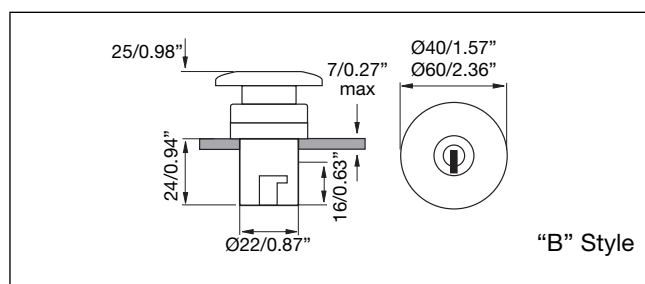
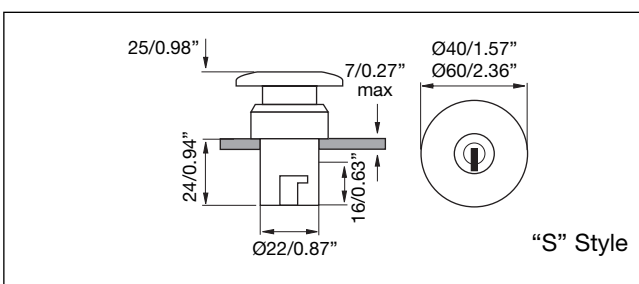
Colour

R = Red


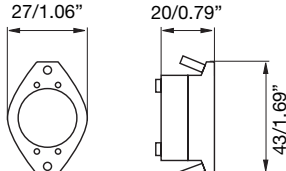

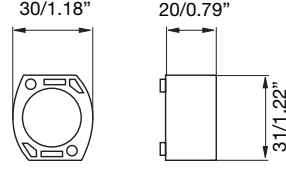

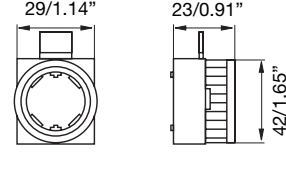
General data

| | |
|------------------------|------------------------------|
| Peripheral of actuator | AL |
| Actuator | Pa |
| Mechanical life | ≥5 x 10 ⁴ cycles |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |
| Degree of protection | IP 65 |

Dimensions - Push Buttons mm/inches

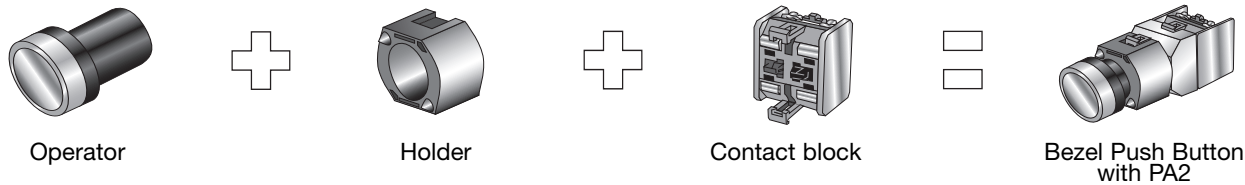


Holders

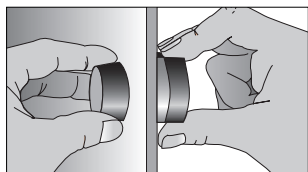
| | | | |
|---|------------------------|--|--|
|  | Holder type "M" | <p>Code PB MB M</p> <p>Material Zn + PBT</p> |  |
|  | Holder type "P" | <p>Code PB MB P</p> <p>Material PBT</p> |  |
|  | Holder type "N" | <p>Code PB MB N</p> <p>Material PC</p> |  |

Assembling and Mounting

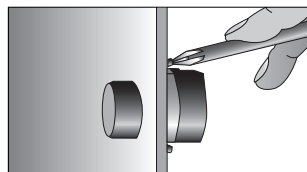
It come easy to get a complete product. Just to choose the operator, the holder, the lamp element and the contact block (up to 3).



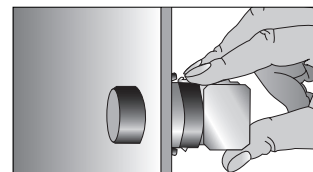
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.

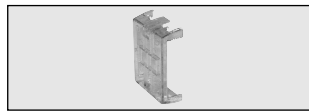


The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuators



Terminal shield

Installed behind the wiring screws of the contact block to avoid electric shock.

PC

PA 2 SHIELD



Mounting ring Ø22mm (0.87")

Installed on plastic panel to strengthen mounting.

FE

PA MR 22



Mounting ring Ø25mm (0.98")

When the mounting hole is Ø25mm (0.98"), it should be add to the panel.

FE

PA MR 25



Warning plate

For emergency stop push buttons.
Thickness 1.5mm/0.059"

ABS

Ø60mm/Ø2.36"
Ø90mm/Ø3.54"

PA WP 6
PA WP 9



Panel hole cap Ø22mm (0.87")

For blocking up prepared or useless holes on the panels.

ABS

PA PHC 22

Panel Actuators and Indicators

Type PB

Extended Push Buttons



- Ø 22mm (Ø0.87") Standard and bezel style
- Self-hold or spring return
- Button colour choice
- Illuminated version made by LED
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529

Product description

Pushbutton switches are mechanical switches that are pushed down to open or to close the electric contacts. They are mostly used to start/stop electric circuits or

devices like lamps, motors, etc. They should be ordered in parts (operator + holder + contact block) and installed in an enclosure.

Ordering key

PB 22S IE 0 R

Series _____
 Dimension and Style _____
 Type _____
 Action _____
 Colour _____

Approvals



Dimensions and styles

22S = Ø22mm (Ø0.87") Standard style
 22B = Ø22mm (Ø0.87") Bezel style

Types

E = Extended round
 IE = Illuminated¹ extended round

¹ = Light function is obtained by the lamp element pg.19

Actions

0 = Spring return
 1 = Maintained

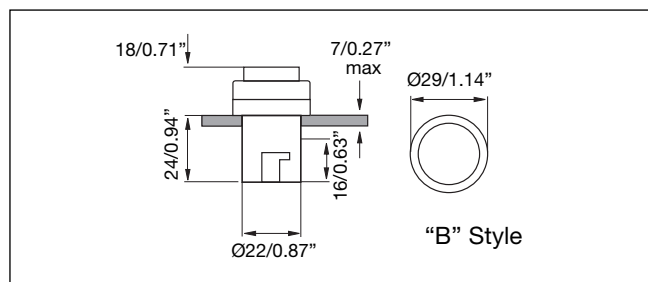
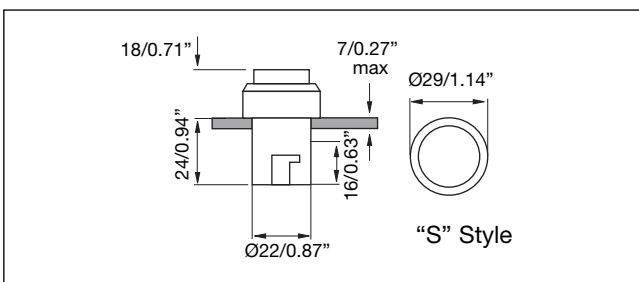
Colours

R = Red B = Blue
 W = Clear/White Y = Yellow
 K = Black G = Green

General data

| | |
|------------------------|------------------------------|
| Peripheral of actuator | AL |
| Actuator | Pa |
| Mechanical life | ≥ 3 x 10 ⁶ cycles |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |
| Degree of protection | IP 65 |

Dimensions - Push Buttons mm/inches



Holders



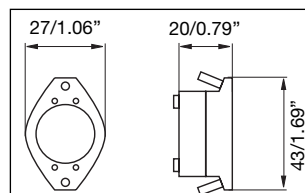
Holder type "M"

Code

PB MB M

Material

Zn + PBT



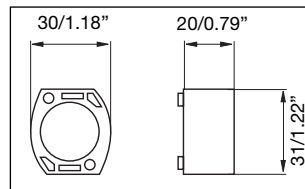
Holder type "P"

Code

PB MB P

Material

PBT



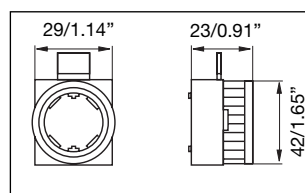
Holder type "N"

Code

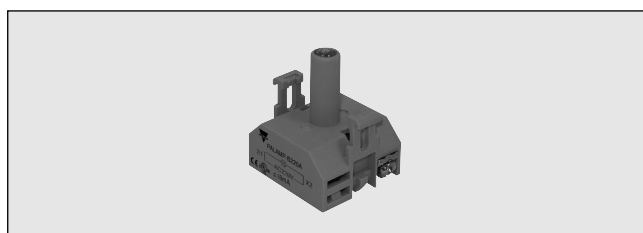
PB MB N

Material

PC



Lamp Element



Ordering key

PALAMP R 220A

Type _____
 Colour _____
 Voltage _____

Approvals



Colours

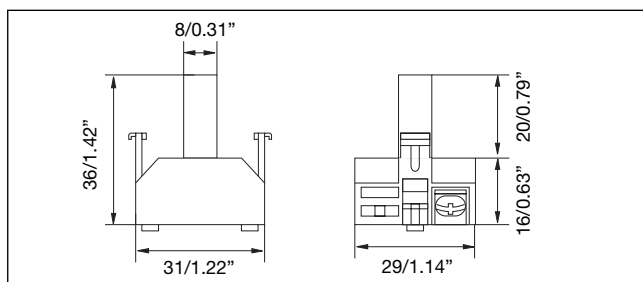
R = Red
 W = Clear/White
 B = Blue

Y = Yellow
 G = Green

Voltage

| | |
|---------------|-----------------|
| 06 = 6VAC/DC | 110 = 110VAC/DC |
| 12 = 12VAC/DC | 220D = 220VDC |
| 24 = 24VAC/DC | 220A = 220VAC |
| 48 = 48VAC/DC | 380A = 380VAC |

Dimensions mm/inches

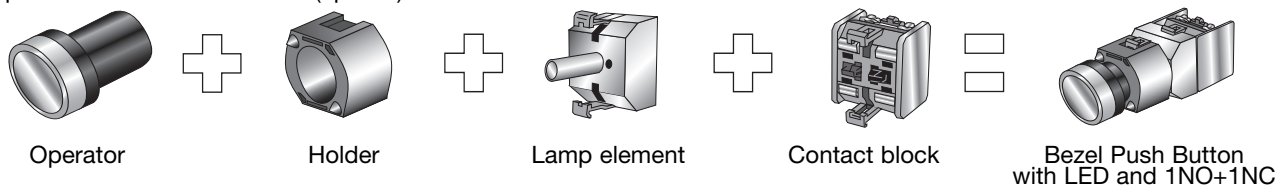


Technical data

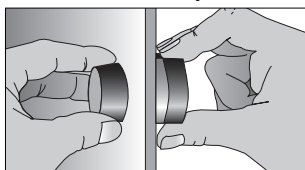
| | |
|--|----------------------------------|
| Rated imp. withstand voltage U_{imp} | 2500VAC 50Hz 1min. |
| Rated insulation Voltage U_i | 500VAC |
| Allowable voltage fluctuation | ±20% |
| Continuous operating life | ≥100.000h |
| Ultrahigh brightness | ≥100cd/m ² (≥9.29ftc) |
| Applying frequency | 50-60Hz |
| Current consumption (AC/DC) | ≤18mA |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |

Assembling and Mounting

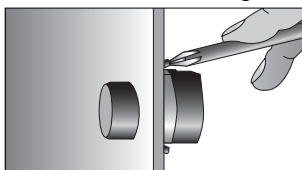
It come easy to get a complete product. Just to choose the operator, the holder, the lamp element if illuminated function is required and the contact block (up to 3).



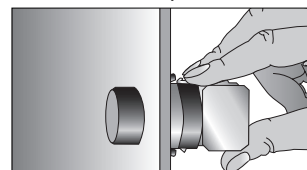
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.

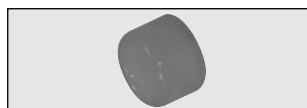


The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuators



Sealing cover IP67

Always on the head of operators, waterproof and dust, IP67.

Silicon rubber

PA SEAL COV

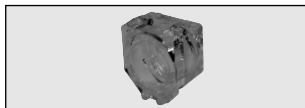


Shield

Always on the head of button, prevent strike and mistaking operation.

Stainless steel

PA PB SHIELD



Protection cover

Always on the head of button, prevent strike and mistaking operation. Lockable.

PC

PA PB COV



Terminal shield

Installed behind the wiring screws of the contact block to avoid electric shock.

PC

PA 2 SHIELD



Mounting ring Ø22mm (0.87")

Installed on plastic panel to strengthen mounting.

FE

PA MR 22



Mounting ring Ø25mm (0.98")

When the mounting hole is Ø25mm (0.98"), it should be add to the panel.

FE

PA MR 25



Label frame

Hang it on the push button or pilot light, for symbol or text explanation.

PC

10mm/0.39"

PA LBF 11

18mm/0.71"

PA LBF 18



Warning plate

For emergency stop push buttons. Thickness 1.5mm/0.059"

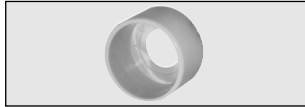
ABS

Ø60mm/Ø2.36"

PA WP 6

Ø90mm/Ø3.54"

PA WP 9



Yellow protection ring

To protect button and to prevent strike or mistaking operation.

ABS

Ø40mm/Ø1.57"

PA YPR 4

Rubber

Ø60mm/Ø2.36"

PA YPR 6



Panel hole cap Ø22mm (0.87")

For blocking up prepared or useless holes on the panels.

ABS

PA PHC 22

Panel Actuators and Indicators

Type PB

Flush Round Push Buttons



- Ø 22mm (Ø0.87") Standard and bezel style
- Self-hold or spring return
- Button colour choice
- Illuminated version made by LED
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529

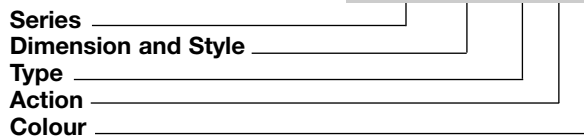
Product description

Pushbutton switches are mechanical switches that are pushed down to open or to close the electric contacts. They are mostly used to start/stop electric circuits or

devices like lamps, motors, etc. They should be ordered in parts (operator + holder + contact block) and installed in an enclosure.

Ordering key

PB 22S IF 0 R



Approvals



Dimensions and styles

- 22S = Ø22mm (Ø0.87") Standard style
- 22B = Ø22mm (Ø0.87") Bezel style

Types

- F = Flush round
- IF = Illuminated¹ flush round

¹ = Light function is obtained by the lamp element pg.19

Actions

- 0 = Spring return
- 1 = Maintained

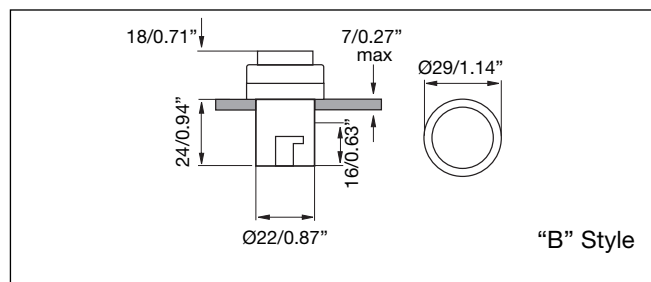
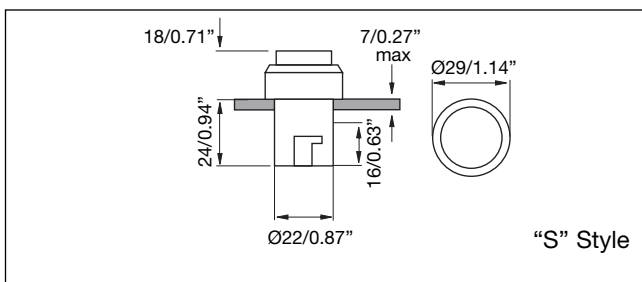
Colours

- R = Red
- W = Clear/White
- K = Black
- B = Blue
- Y = Yellow
- G = Green

General data

| | |
|------------------------|------------------------------|
| Peripheral of actuator | AL |
| Actuator | Pa |
| Mechanical life | ≥3 x 10 ⁶ cycles |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |
| Degree of protection | IP 65 |

Dimensions - Push Buttons mm/inches



Holders



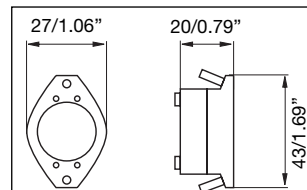
Holder type "M"

Code

Material

PB MB M

Zn + PBT



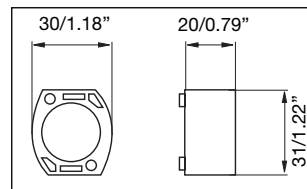
Holder type "P"

Code

Material

PB MB P

PBT



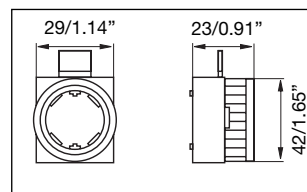
Holder type "N"

Code

Material

PB MB N

PC



Lamp Element



Ordering key

PALAMP R 220A

Type _____
 Colour _____
 Voltage _____

Approvals



Colours

R = Red
 W = Clear/White
 B = Blue

Y = Yellow
 G = Green

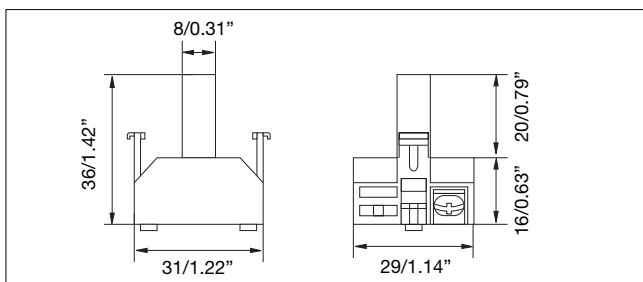
Voltage

| | |
|---------------|-----------------|
| 06 = 6VAC/DC | 110 = 110VAC/DC |
| 12 = 12VAC/DC | 220D = 220VDC |
| 24 = 24VAC/DC | 220A = 220VAC |
| 48 = 48VAC/DC | 380A = 380VAC |

Technical data

| | |
|--|----------------------------------|
| Rated imp. withstand voltage U_{imp} | 2500VAC 50Hz 1min. |
| Rated insulation Voltage U_i | 500VAC |
| Allowable voltage fluctuation | ±20% |
| Continuous operating life | ≥100.000h |
| Ultrahigh brightness | ≥100cd/m ² (≥9.29ftc) |
| Applying frequency | 50-60Hz |
| Current consumption (AC/DC) | ≤18mA |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |

Dimensions mm/inches

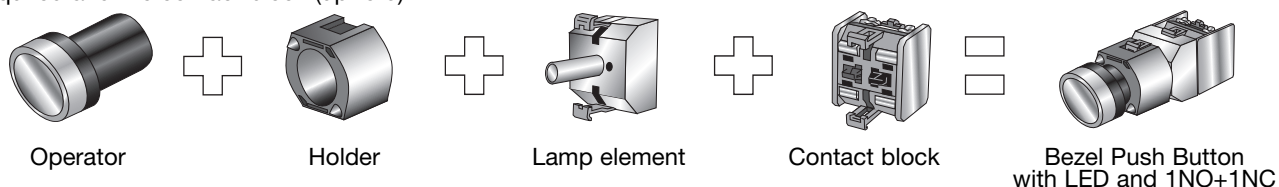


Wiring Notes

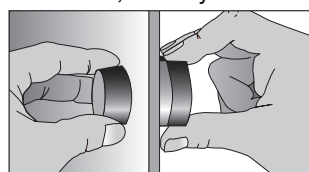
- 1) Use 60°C or 75°C copper (CU) conductor and wire size range 18AWG, stranded or solid.
- 2) Terminal tightening torque 0.6Nm (5.3in.lb)
- 3) Recommended external fuse - listed or R/C fuses, Supplemental (JDYX, JDYX2) rated 3A maximum.

Assembling and Mounting

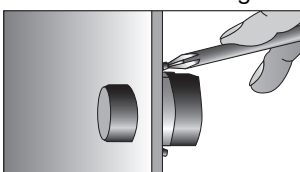
It come easy to get a complete product. Just to choose the operator, the holder, the lamp element if illuminated function is required and the contact block (up to 3).



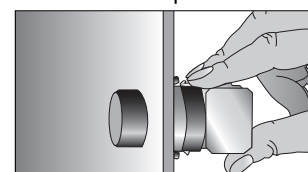
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.



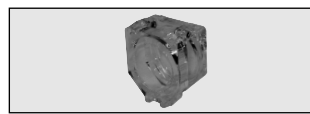
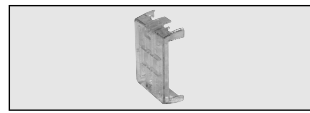




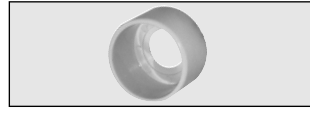



The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuators

| | | | | |
|---|-------------------------------------|--|-----------------|--|
|  | Sealing cover IP67 | Always on the head of operators, waterproof and dust, IP67. | Silicon rubber | PA SEAL COV |
|  | Shield | Always on the head of button, prevent strike and mistaking operation. | Stainless steel | PA PB SHIELD |
|  | Protection cover | Always on the head of button, prevent strike and mistaking operation. Lockable. | PC | PA PB COV |
|  | Terminal shield | Installed behind the wiring screws of the contact block to avoid electric shock. | PC | PA 2 SHIELD |
|  | Mounting ring Ø22mm (0.87") | Installed on plastic panel to strengthen mounting. | FE | PA MR 22 |
|  | Mounting ring Ø25mm (0.98") | When the mounting hole is Ø25mm (0.98"), it should be add to the panel. | FE | PA MR 25 |
|  | Label frame | Hang it on the push button or pilot light, for symbol or text explanation. | PC | 10mm/0.39" 18mm/0.71" PA LBF 11 PA LBF 18 |
|  | Warning plate | For emergency stop push buttons. Thickness 1.5mm/0.059" | ABS | Ø60mm/Ø2.36" Ø90mm/Ø3.54" PA WP 6 PA WP 9 |
|  | Yellow protection ring | To protect button and to prevent strike or mistaking operation. | ABS Rubber | Ø40mm/Ø1.57" Ø60mm/Ø2.36" PA YPR 4 PA YPR 6 |
|  | Panel hole cap Ø22mm (0.87") | For blocking up prepared or useless holes on the panels. | ABS | PA PHC 22 |

Panel Actuators and Indicators

Type PB

Long-handle Selector Switches



- Ø 22mm (Ø0.87") Standard and bezel style
- Self-hold or spring return
- Knob colour choice
- Two and three positions
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529

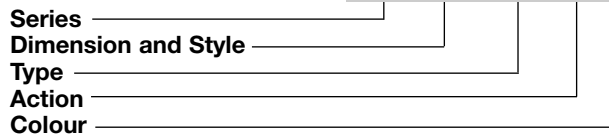


Product description

Selector switches are mechanical switches that can be turned right, center or left to open or to close the electric contacts. They are mostly used to start/stop devices or to switch between two/three electric circuits. They should be ordered in parts (operator + holder + contact block) and installed in an enclosure.

Ordering key

PB 22S LRS 32 R



Approvals



Dimensions and styles

22S = Ø22mm (Ø0.87") Standard style
 22B = Ø22mm (Ø0.87") Bezel style

Type

LRS = Long-handle selector switch

Actions

(the arrows indicate the spring return function)

- 21 = Two positions L R
- 22 = Two positions L[↶] C R
- 23 = Two positions C[↶] R
- 31 = Three positions L C R
- 32 = Three positions L[↶] C[↶] R
- 33 = Three positions L[↶] C R
- 34 = Three positions L C[↶] R

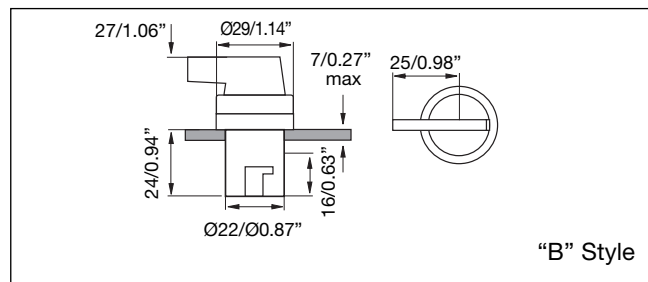
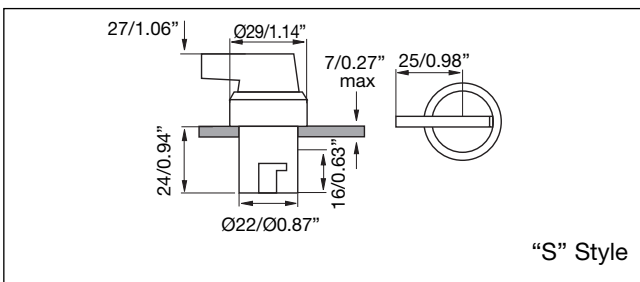
Colours

- R = Red
- Y = Yellow
- K = Black
- G = Green


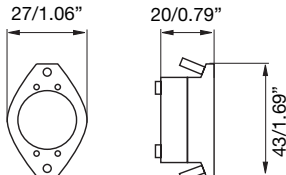

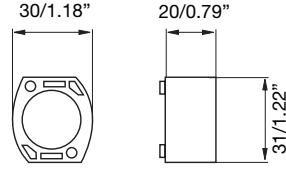

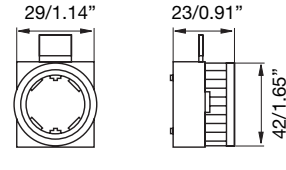
General data

| | |
|------------------------|------------------------------|
| Peripheral of actuator | AL |
| Actuator | Pa |
| Mechanical life | ≥30 x 10 ⁴ cycles |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |
| Degree of protection | IP 65 |

Dimensions - Push Buttons mm/inches

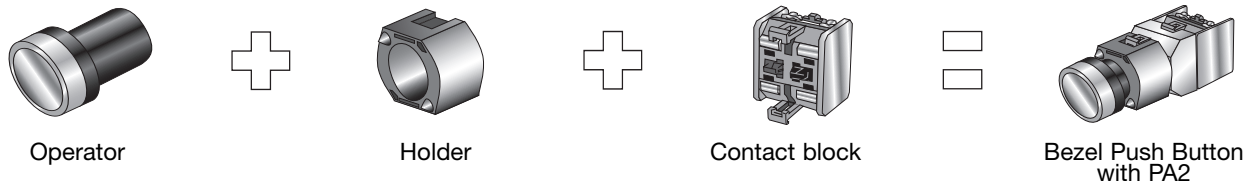


Holders

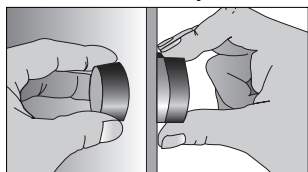
| | | | |
|---|------------------------|--|--|
|  | Holder type "M" | <p>Code PB MB M</p> <p>Material Zn + PBT</p> |  |
|  | Holder type "P" | <p>Code PB MB P</p> <p>Material PBT</p> |  |
|  | Holder type "N" | <p>Code PB MB N</p> <p>Material PC</p> |  |

Assembling and Mounting

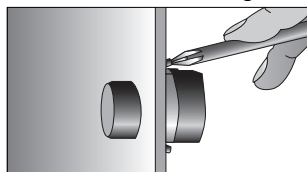
It come easy to get a complete product. Just to choose the operator, the holder, the lamp element and the contact block (up to 3).



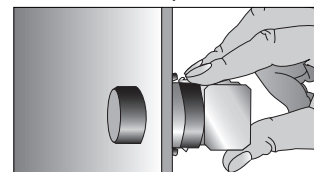
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.









The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuators

| | | | | |
|--|-------------------------------------|--|---------------|--|
|  | Terminal shield | Installed behind the wiring screws of the contact block to avoid electric shock. | PC | PA 2 SHIELD |
|  | Mounting ring Ø22mm (0.87") | Installed on plastic panel to strengthen mounting. | FE | PA MR 22 |
|  | Mounting ring Ø25mm (0.98") | When the mounting hole is Ø25mm (0.98"), it should be add to the panel. | FE | PA MR 25 |
|  | Label frame | Hang it on the push button or pilot light, for symbol or text explanation. | PC | 10mm/0.39" PA LBF 11 18mm/0.71" PA LBF 18 |
|  | Yellow protection ring | To protect button and to prevent strike or mistaking operation. | ABS Rubber | Ø40mm/Ø1.57" PA YPR 4 Ø60mm/Ø2.36" PA YPR 6 |
|  | Panel hole cap Ø22mm (0.87") | For blocking up prepared or useless holes on the panels. | ABS | PA PHC 22 |

Panel Actuators and Indicators

Type PB

Short-handle Selector Switches



- Ø 22mm (Ø0.87") Standard and bezel style
- Self-hold or spring return
- Knob colour choice
- Two and three positions
- Illuminated version made by LED
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529

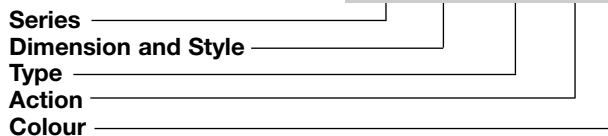


Product description

Selector switches are mechanical switches that can be turned right, center or left to open or to close the electric contacts. They are mostly used to start/stop devices or to switch between two/three electric circuits. They should be ordered in parts (operator + holder + contact block) and installed in an enclosure.

Ordering key

PB 22S ISRS 32 R



Approvals



Types

SRS = Short-handle selector switch
ISRS = Illuminated¹ short-handle selector switch

¹ = Light function is obtained by the lamp element pg.19

Dimensions and styles

22S = Ø22mm (Ø0.87") Standard style
22B = Ø22mm (Ø0.87") Bezel style

Actions

(the arrows indicate the spring return function)

- 21** = Two positions L R
- 22** = Two positions L[↔] C
not for illuminated
- 23** = Two positions C ↗R
not for illuminated
- 31** = Three positions L C R
- 32** = Three positions L[↔] C ↗R
not for illuminated
- 33** = Three positions L[↔] C R
not for illuminated
- 34** = Three positions L C ↗R
not for illuminated

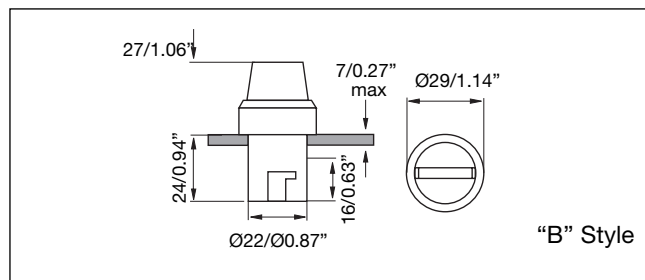
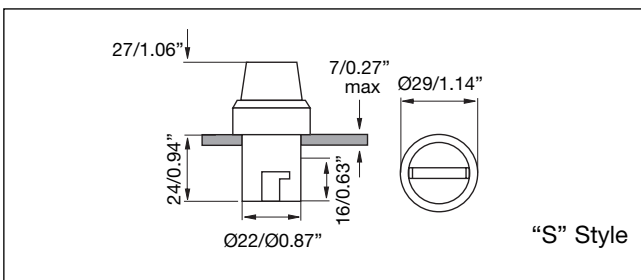
Colours

- R** = Red
- W** = Clear/White (only illuminated)
- K** = Black (only not illuminated)
- B** = Blue (only illuminated)
- Y** = Yellow
- G** = Green

General data

| | |
|------------------------|------------------------------|
| Peripheral of actuator | AL |
| Actuator | Pa |
| Mechanical life | ≥30 x 10 ⁴ cycles |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |
| Degree of protection | IP 65 |

Dimensions - Push Buttons mm/inches



Holders



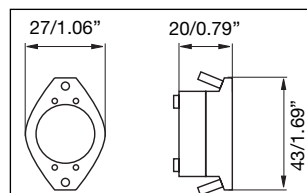
Holder type "M"

Code

Material

PB MB M

Zn + PBT



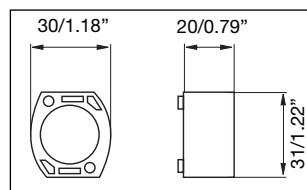
Holder type "P"

Code

Material

PB MB P

PBT



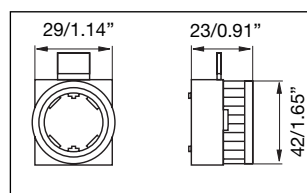
Holder type "N"

Code

Material

PB MB N

PC



Lamp Element



Ordering key

PALAMP R 220A

Type _____
 Colour _____
 Voltage _____

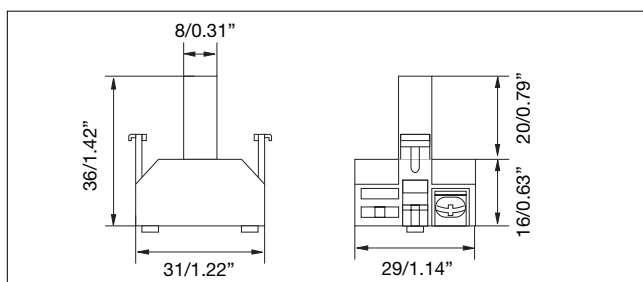
Approvals



Voltage

| | |
|---------------|-----------------|
| 06 = 6VAC/DC | 110 = 110VAC/DC |
| 12 = 12VAC/DC | 220D = 220VDC |
| 24 = 24VAC/DC | 220A = 220VAC |
| 48 = 48VAC/DC | 380A = 380VAC |

Dimensions mm/inches



Colours

R = Red
 W = Clear/White
 B = Blue
 Y = Yellow
 G = Green

Technical data

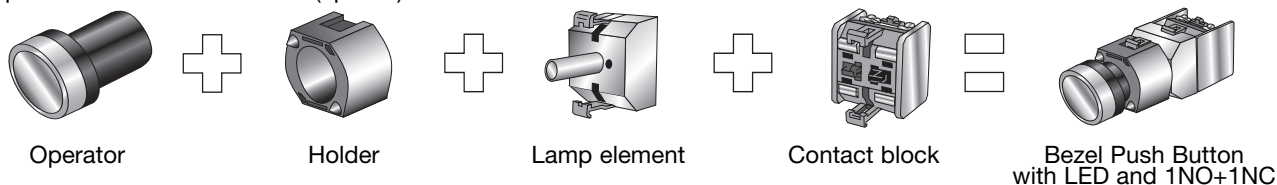
| | |
|--|----------------------------------|
| Rated imp. withstand voltage U_{imp} | 2500VAC 50Hz 1min. |
| Rated insulation Voltage U_i | 500VAC |
| Allowable voltage fluctuation | ±20% |
| Continuous operating life | ≥100.000h |
| Ultrahigh brightness | ≥100cd/m ² (≥9.29ftc) |
| Applying frequency | 50-60Hz |
| Current consumption (AC/DC) | ≤18mA |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |

Wiring Notes

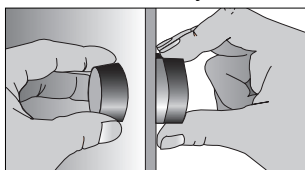
- 1) Use 60°C or 75°C copper (CU) conductor and wire size range 18AWG, stranded or solid.
- 2) Terminal tightening torque 0.6Nm (5.3in.lb)
- 3) Recommended external fuse - listed or R/C fuses, Supplemental (JDYX, JDYX2) rated 3A maximum.

Assembling and Mounting

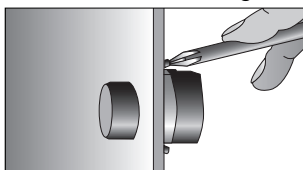
It come easy to get a complete product. Just to choose the operator, the holder, the lamp element if illuminated function is required and the contact block (up to 3).



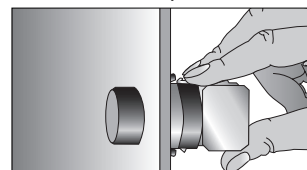
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.



The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuator



Terminal shield

Installed behind the wiring screws of the contact block to avoid electric shock. PC

PA 2 SHIELD



Mounting ring Ø22mm (0.87")

Installed on plastic panel to strengthen mounting. FE

PA MR 22



Mounting ring Ø25mm (0.98")

When the mounting hole is Ø25mm (0.98"), it should be add to the panel. FE

PA MR 25

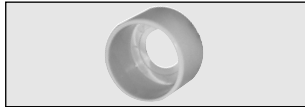


Label frame

Hang it on the push button or pilot light, for symbol or text explanation. PC

10mm/0.39"
18mm/0.71"

PA LBF 11
PA LBF 18



Yellow protection ring

To protect button and to prevent strike or mistaking operation. ABS Rubber

Ø40mm/Ø1.57"
Ø60mm/Ø2.36"

PA YPR 4
PA YPR 6

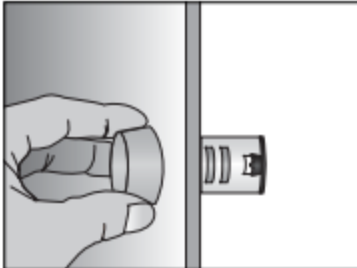


Panel hole cap Ø22mm (0.87")

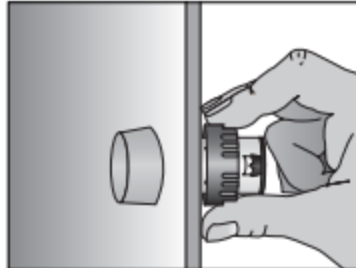
For blocking up prepared or useless holes on the panels. ABS

PA PHC 22

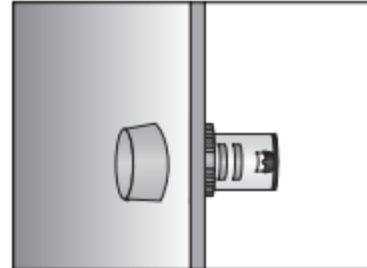
Mounting



Just insert the pilot light into the hole of the pannel.

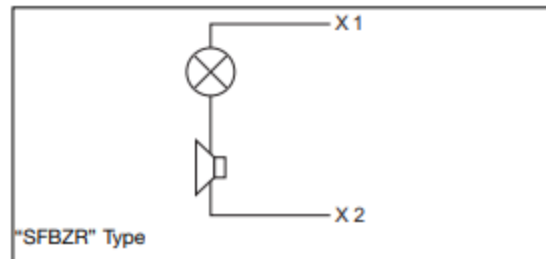
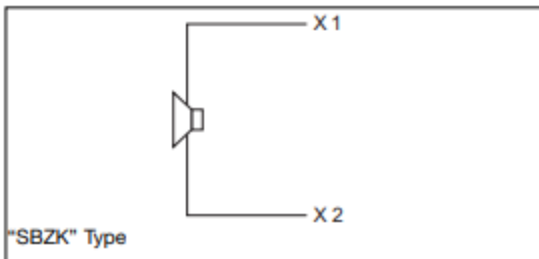


The pilot light will be secured at the back by the plastic nut



The pilot light has been installed.

Wiring Diagram

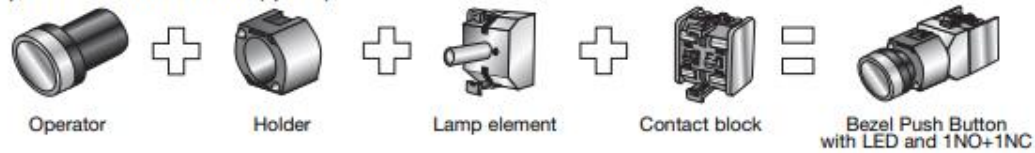


Wiring Notes

- 1) Use 60°C or 75°C copper (CU) conductor and wire size range 18AWG, stranded or solid.
- 2) Terminal tightening torque 0.6Nm (5.3in.lb)
- 3) Recommended external fuse - listed or R/C fuses, Supplemental (JDYX, JDYX2) rated 3A mmaximum.

Assembling and Mounting

It come easy to get a complete product. Just to choose the operator, the holder, the lamp element if illuminated function is required and the contact block (up to 3).



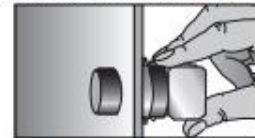
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.



The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuators



Sealing cover IP67

Always on the head of operators, waterproof and dust, IP67. Silicon rubber

PA SEAL COV



Protection cover

Always on the head of button, prevent strike and mistaking operation. Lockable.

PC

PA PB COV



Mounting ring Ø22mm (0.87")

Installed on plastic panel to strengthen mounting.

FE

PA MR 22



Reducing ring for Pilot Light Ø22mm (0.87")

To mount the Ø22mm (0.87") pilot light into the hole for Ø25mm (0.98") or Ø30mm (1.18") of the panel.

ABS

Ø30mm/Ø1.18"

PA RR 3



Fastening connector for Pilot Light Ø22mm (0.87")

Improve the quality of installation and reduce the time of installations.

PC

PA PL CONN



Label frame

Hang it on the push button or pilot light, for symbol or text explanation.

PC

10mm/0.39"

PA LBF 11

18mm/0.71"

PA LBF 18



Warning plate

For emergency stop push buttons. Thickness 1.5mm/0.059"

ABS

Ø60mm/Ø2.36"

PA WP 6

Ø90mm/Ø3.54"

PA WP 9



Panel hole cap Ø22mm (0.87")

For blocking up prepared or useless holes on the panels.

ABS

PA PHC 22

Panel Actuators and Indicators

Type PL 22

Pilot Lights



PL 22C HL



PL 22C RL



PL 22C LL



PL 22S FL

- Ø 22mm (Ø0.87") dimension
- Compact versions
- Different colours choice
- High brightness pure colour LED
- High reliability and durability
- AC and DC voltage
- cULus and CE
- IEC/EN 60947-5-1, IEC/EN 60073, IEC/EN 60529

Product description

Pilot lights are panel mounted lamp assemblies consisting of the indicator housing, an internal lamp, terminals, and a lens. Applications include industrial control panels of all

types, equipment indicator panels, status indicators and display lighting. The light source is high brightness pure colour LED.

Approvals

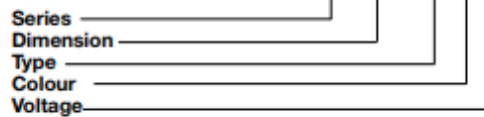


Technical data

| | |
|--|----------------------------------|
| Rated imp. withstand voltage U_{imp} | 2500VAC 50Hz 1min. |
| Rated insulation Voltage U_i | 500VAC |
| Allowable voltage fluctuation | ±20% |
| Continuous operating life | ≥100.000h |
| Ultrahigh brightness | ≥100cd/m ² (≥9.29ftc) |
| Applying frequency | 50-60Hz |
| Current consumption (AC/DC) | ≤18mA |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |
| Degree of protection | IP 65 |

Ordering key

PL 22C HL R 24 *



* Not all configurations available - see page 6 for complete list

Dimensions

22S = Ø22mm (Ø0.87") standard size
 22C = Ø22mm (Ø0.87") compact size (not for FL type)

Types

HL = High Lens
 RL = Round Lens
 LL = Low Lens
 FL = Flash Light

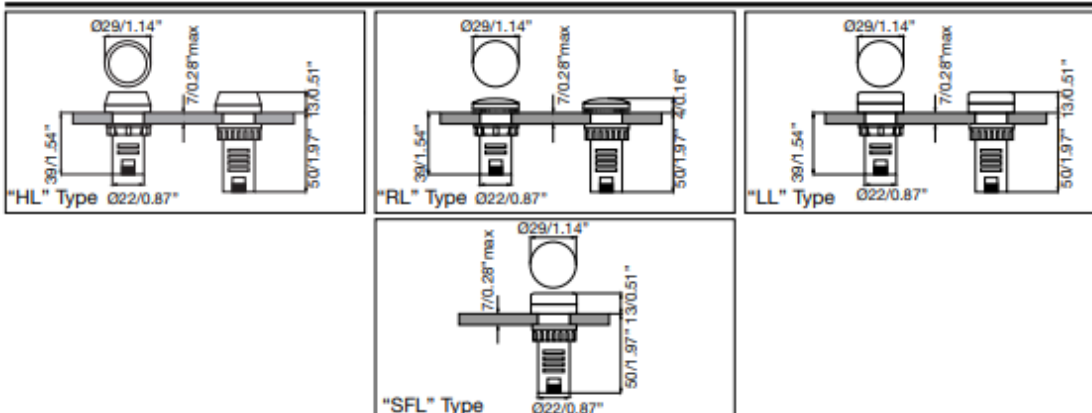
Colours

R = Red
 W = Clear/White
 B = Blue
 Y = Yellow
 G = Green

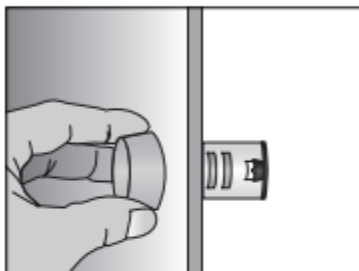
Voltages

12 = 12VAC/DC
 24 = 24VAC/DC
 110 = 110VAC/DC
 220A = 220VAC

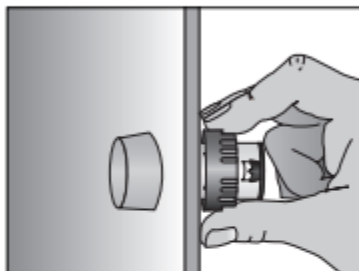
Dimensions mm/inches



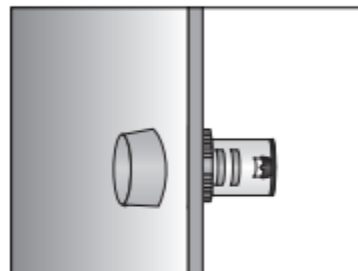
Mounting



Just insert the pilot light into the hole of the panel.

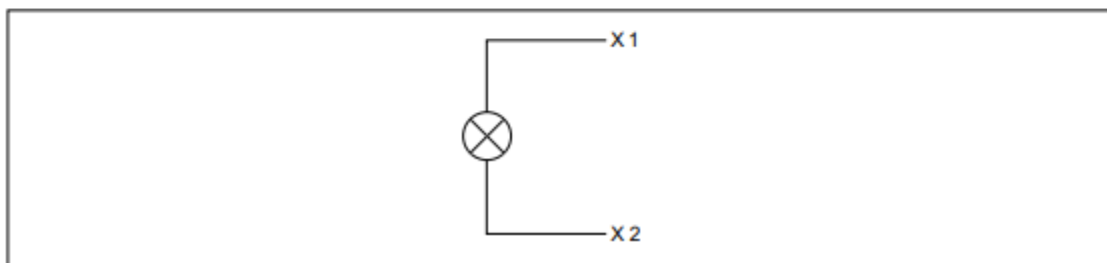


The pilot light will be secured at the back by the plastic nut



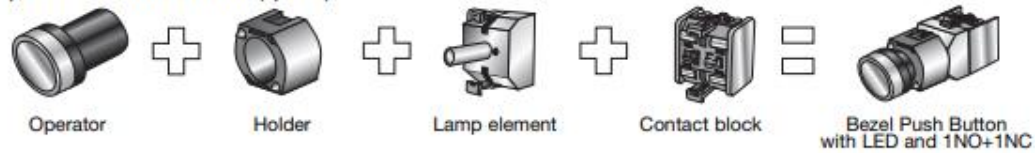
The pilot light has been installed.

Wiring Diagram

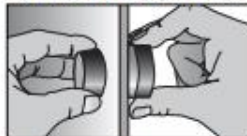


Assembling and Mounting

It come easy to get a complete product. Just to choose the operator, the holder, the lamp element if illuminated function is required and the contact block (up to 3).



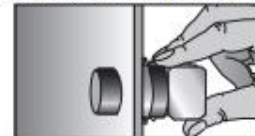
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



The operator will be inserted into the panel.



The holder will be secured at the back by two screws or nut.



The contact block is snapped on.

Accessories for Panel Actuators



Sealing cover IP67

Always on the head of operators, waterproof and dust, IP67. Silicon rubber

PA SEAL COV



Protection cover

Always on the head of button, prevent strike and mistaking operation. Lockable.

PC

PA PB COV



Mounting ring Ø22mm (0.87")

Installed on plastic panel to strengthen mounting.

FE

PA MR 22



Reducing ring for Pilot Light Ø22mm (0.87")

To mount the Ø22mm (0.87") pilot light into the hole for Ø25mm (0.98") or Ø30mm (1.18") of the panel.

ABS

Ø30mm/Ø1.18"

PA RR 3



Fastening connector for Pilot Light Ø22mm (0.87")

Improve the quality of installation and reduce the time of installations.

PC

PA PL CONN



Label frame

Hang it on the push button or pilot light, for symbol or text explanation.

PC

10mm/0.39"

PA LBF 11

18mm/0.71"

PA LBF 18



Warning plate

For emergency stop push buttons. Thickness 1.5mm/0.059"

ABS

Ø60mm/Ø2.36"

PA WP 6

Ø90mm/Ø3.54"

PA WP 9




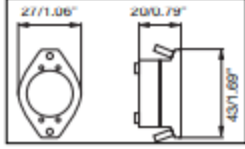

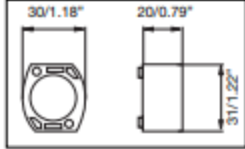

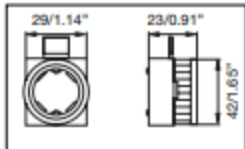
Panel hole cap Ø22mm (0.87")

For blocking up prepared or useless holes on the panels.

ABS

PA PHC 22

Holders

| | | | |
|---|--|-----------------------------------|---|
|  | Holder type "M" Code Material | PB MB M Zn + PBT |  |
|  | Holder type "P" Code Material | PB MB P PBT |  |
|  | Holder type "N" Code Material | PB MB N PC |  |

Lamp Element



Ordering key

PALAMP R 220A*

Type _____
 Colour _____
 Voltage _____

* Not all configurations available – see page 6 for complete list

Approvals



Colours

R = Red Y = Yellow
 W = Clear/White G = Green
 B = Blue

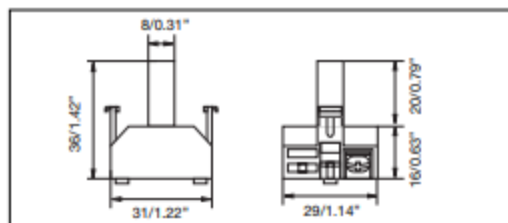
Voltage

| | |
|---------------|-----------------|
| 12 = 12VAC/DC | 110 = 110VAC/DC |
| 24 = 24VAC/DC | 220A = 220VAC |

Technical data

| | |
|--|----------------------------------|
| Rated imp. withstand voltage U_{imp} | 2500VAC 50Hz 1min. |
| Rated insulation Voltage U_i | 500VAC |
| Allowable voltage fluctuation | ±20% |
| Continuous operating life | ≥100.000h |
| Ultrahigh brightness | ≥100cd/m ² (≥9.29ftc) |
| Applying frequency | 50-60Hz |
| Current consumption (AC/DC) | ≤18mA |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |

Dimensions mm/inches



Wiring Notes

- 1) Use 60°C or 75°C copper (CU) conductor and wire size range 18AWG, stranded or solid.
- 2) Terminal tightening torque 0.6Nm (5.3in.lb)
- 3) Recommended external fuse - listed or R/C fuses, Supplemental (JDYX, JDYX2) rated 3A maximum.

Panel Actuators and Indicators

Type PA2

Contact Block



- High switching power
- Double switch
- Industrial applications
- 10A switching capacity
- Up to 500VAC
- Modular mounting (up to 3 elements)
- Screw terminals
- High reliability
- cULus and CE
- According to EN ISO 13850 (only NC slow action)
- IEC/EN 60947-5-1, IEC/EN 60947-5-5, UL 508

Product description

Switching element equipped with two independent elements. Available in different switching configurations. Pole and throw configurations can be single pole single throw (SPST) or double pole single throw (DPST). Elements can be snapped to each other on the bottom, up to 3.

Approvals



Technical data

| | |
|---|--|
| Contact resistance | ≤50mΩ |
| Travel | 5.8 ± 0.2mm (2.28" ± 0.08") |
| Rated insulation Voltage U _i | 660VAC/DC (acc. to IEC 60947-5-1) 600VAC/DC (acc. to UL508) |
| Rated imp. withstand voltage U _{imp} | 2500VAC 50Hz 1min. |
| Minimum switching power | |
| Min Current | 100mA |
| Min Voltage | 24V |
| Switch housing | PC |
| Contact parts | Cu |
| Contact material | |
| Standard | Hard silver |
| Optional | Gold/silver |
| Optional for aggressive atmospheres | Silver/palladium |
| Operating temperature | -25 to +70°C (-13 to +158°F) |
| Storage temperature | -30 to +80°C (-22 to +176°F) |

Terminals

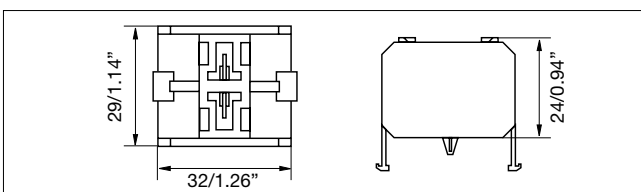
Screw terminals

Max. section single-core wire
Max. section stranded wire
Copper conductor wire

2 x 2.5mm² (0.004sq.inch)
2 x 1.5mm² (0.002sq.inch)
14 AWG @ 60°C or 75°C
CU conductor
1.2Nm (10.6in.lb.)

Terminal tightening torque

Dimensions mm/inches



Ordering key

PA 2 110 / 1

Type _____
Number of contacts _____
Contact code _____
Options (1 = Snap action _____
2 = Slow action with forced opening ⊕ NC contact)

Contact code

| Contact configuration | Contact code |
|-----------------------------|--------------|
| 2 NO contacts (DPST) | 200 |
| 2 NC contacts (DPST) | 020 |
| 1 NC contact (SPST) | 010 |
| 1 NO contact (SPST) | 100 |
| 1 NC + 1 NO contacts (DPST) | 110 |

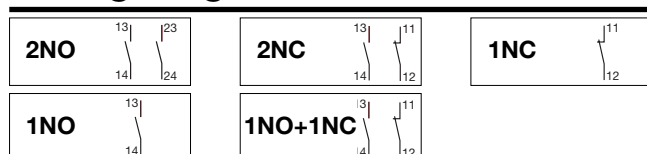
Contact characteristics

| Contact Rating AC1 | 10A @ 250VAC | | |
|------------------------------------|--------------|-------|--|
| Contact Rating | AC15 | DC13 | |
| (acc. to IEC 60947-5-1) | @ 24V 10A | 6A | |
| | @ 110V 8A | 1A | |
| | @ 220V 6A | 0.5A | |
| | @ 380V 4A | - | |
| | @ 500V 2.5A | - | |
| AC Contact Rating (acc. to UL 508) | A600 | B600 | |
| B600 (all snap codes) | @ 120V 6A | 3A | |
| A600 (all slow codes) | @ 240V 3A | 1.5A | |
| | @ 480V 1.5A | 0.75A | |
| | @ 600V 1.2A | 0.6A | |
| DC Contact Rating (acc. to UL 508) | Q600 | Q300 | |
| Q600 (all snap codes) | @ 125V 0.55A | 0.55A | |
| Q600 (100, 200 slow codes) | @ 250V 0.27A | 0.27A | |
| Q300 (010, 020, 110 slow codes) | @ 480V 0.10A | - | |
| | @ 600V 0.10A | - | |

| Contact rating code designation | Thermal continuous test current, Amperes | Maximum current, amperes (acc. to UL508) | | | | | | | | Maximum volt-amperes | |
|---------------------------------|--|--|-------|------|-------|------|-------|------|-------|----------------------|-------|
| | | 120V | | 240V | | 480V | | 600V | | | |
| | | Make | Break | Make | Break | Make | Break | Make | Break | Make | Break |
| A600 | 10 | 60 | 6.00 | 30 | 3.00 | 15 | 1.5 | 12 | 1.2 | 7200 | 720 |
| B600 | 5 | 30 | 3.00 | 15 | 1.50 | 7.50 | 0.75 | 6 | 0.6 | 3600 | 360 |

| Contact rating code designation | Thermal continuous test current, Amperes | Maximum current, amperes (acc. to UL508) | | | Maximum make or break volt-amperes @ 300V or less |
|---------------------------------|--|--|------|-------------|---|
| | | 125V | 250V | 301 to 600V | |
| Q600 | 2.5 | 0.55 | 0.27 | 0.10 | 69 |
| Q300 | 2.5 | 0.55 | 0.27 | - | 69 |

Wiring diagram



PS38H Safety Hinges



- Multiple integrated circuit
- Compact dimensions
- Minimum width of installation: 30mm
- Protection degree IP67
- Safety switch integrated
- Conforms to IEC / EN Standards, ISO 13849-1 (SIL 3, PLc)
- Stainless steel components
- Contact configurations:
2NO + 2NC / 1NO + 3NC
-

Approvals



Product Description

PS38H is a series of compact safety hinges with flexible mounting configurations - top axial output with cable or connector and back output. The internal switch is composed of 4 slow action double break contacts (Zb type to IEC EN

60947-5-1) guaranteed for all NC contacts. The four contacts are available in two configurations - T22 (2NO + 2NC) or T13 (1NO + 3NC). All the circuits have low contact resistance thanks to the self-cleaning action of the silver paste.

Ordering Key

PS38H-IT2205-T01

Model _____
 Cable gland _____
 Contact block _____
 Head Type _____
 Material of body _____
 Options _____

Type Selection

| Model | Cable gland | Contact block | Head type | Material body | Options |
|--------------|---|--|--------------------|--|----------------------|
| PS38H | I: 8 pole connector (cable with connector not included, and not available from Carlo Gavazzi) | T22: 2NO + 2NC non overlapping slow action | 05: 90° Adjustable | T: Thermoplastic body and thermoplastic head | 01: Top axial output |
| Safety hinge | C: 2m. cable with 8 conductors (pre-wired) | T13: 1NO + 3NC non overlapping slow action | - | - | 02: Back output |

How to Order

| Code | Description | Connection | NO Contacts | NC Contacts |
|------------------|-------------------|---------------|-------------|-------------|
| PS38H-IT2205-T01 | Top axial output | M12 Connector | 2 | 2 |
| PS38H-CT2205-T01 | Top axial output | 2m UL cable | 2 | 2 |
| PS38H-CT2205-T02 | Back axial output | 2m UL cable | 2 | 2 |
| PS38H-IT1305-T01 | Top axial output | M12 Connector | 1 | 3 |
| PS38H-CT1305-T01 | Top axial output | 2m UL cable | 1 | 3 |
| PS38H-CT1305-T02 | Back axial output | 2m UL cable | 1 | 3 |

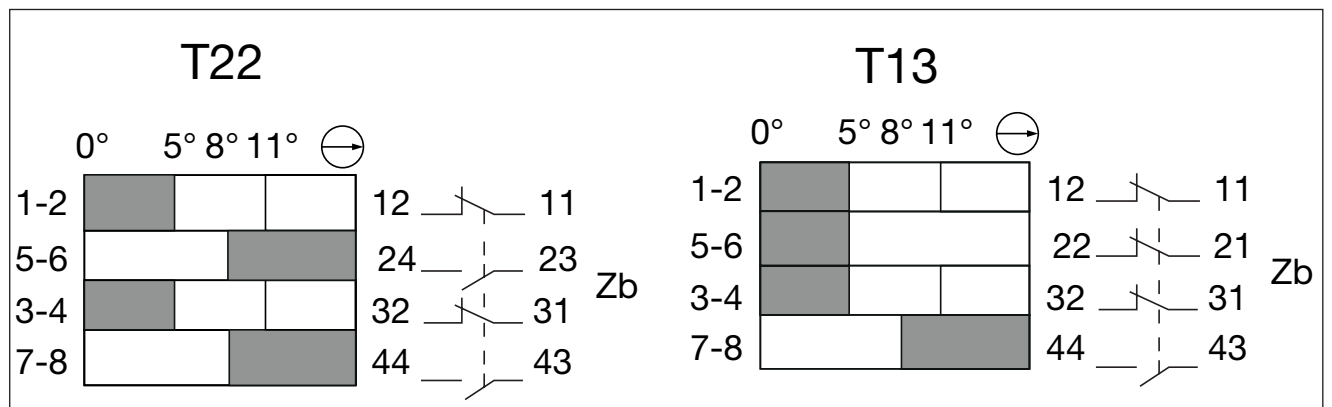
General Data

| | | | |
|--|---|-----------------------------------|--|
| Standard | Devices conform with international IEC 947-5-1 and European EN 60947-5-1 standards. | Mechanical durability | 1.000.000 operations |
| Air temperature During operation | -20° to +80°C | Operational frequency | 1.200 cycles/h |
| For storage | -20° to +80°C | B10d (n. operations) | 2.000.000 cycles |
| Protection degree | IP67 | Positive opening operation | (according to IEC 947-5-1) All NC contacts have positive opening activation (min. 0,5Nm.) |

Electrical Data

| | | | | |
|--|-------------|---|--|--|
| Rated insulation voltage Ui According to IEC 947-1 Pollution degree 3 Cable Connector | 400V 30V | Rated operational current 24V - 50/60 Hz 120V - 50/60 Hz 250V - 50/60 Hz 400V - 50/60 Hz 24V - d.c. 125V - d.c. 250V - d.c. | Cable 4A 4A 4A 4A 2A 0.4A 0.3A | Connector - - - - 2A - - |
| Protection against electric shock | Class II | | | |
| Thermal current Ith Cable Connector | 4A 2A | | | |

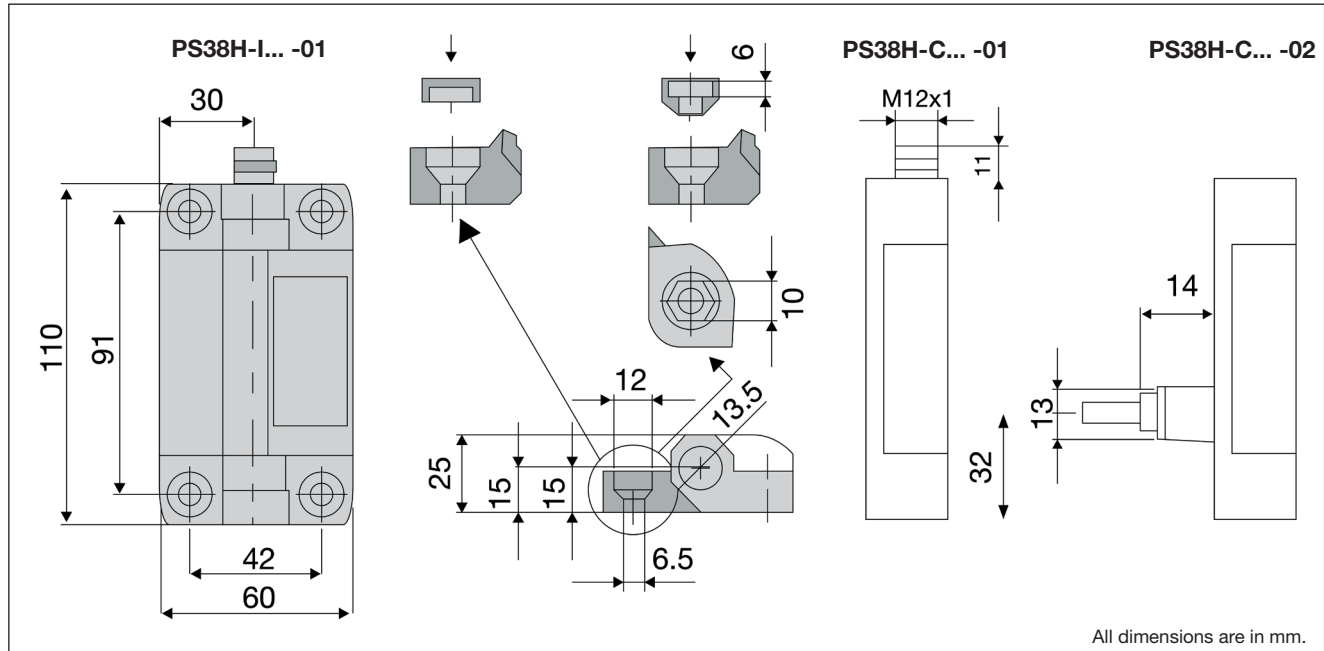
Diagram of Contacts



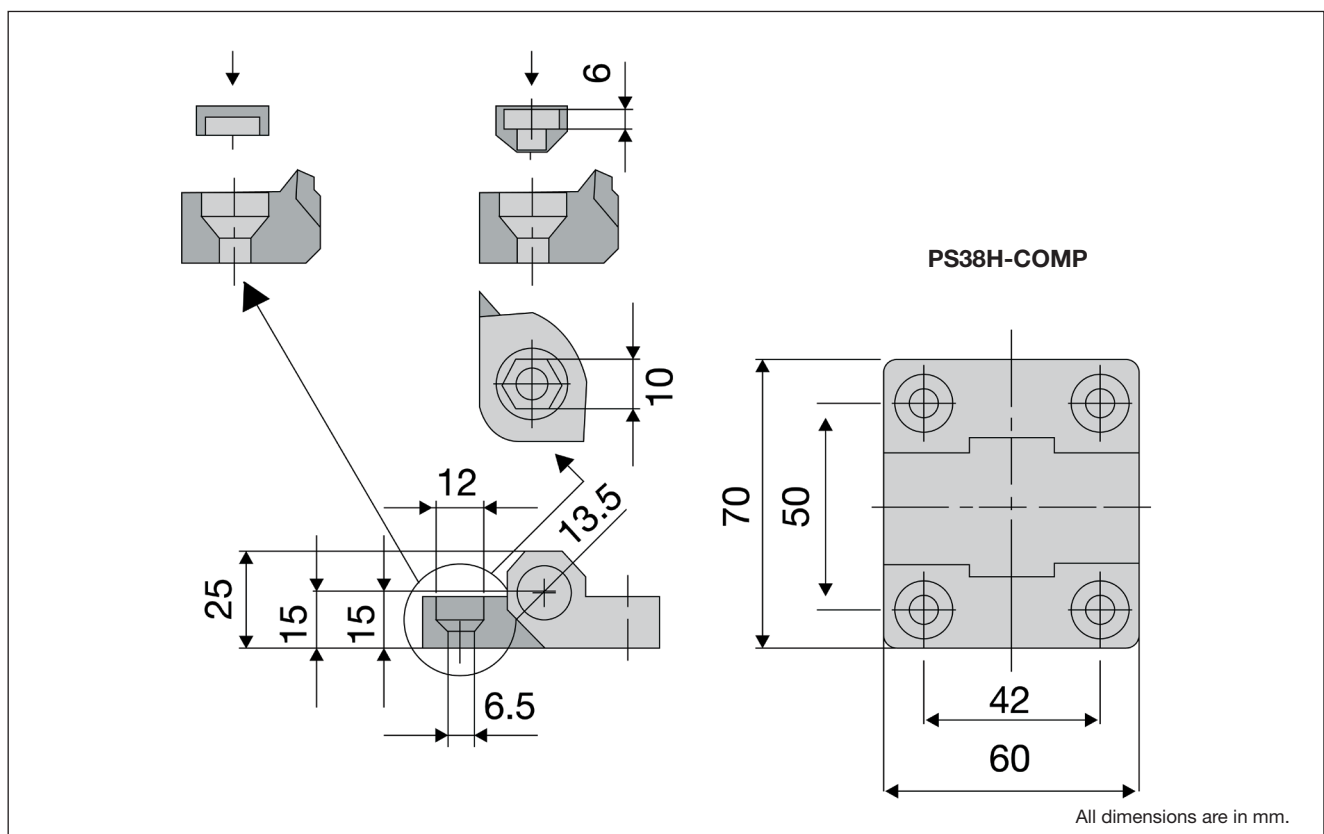
NOTE

As shown in the diagram (see above), the angle of action is set at the factory to 5° (opening of the NC contacts, to be verified according to EN294). This angle and, in consequence, also the angle of the closure of the NO contact and positive opening of the NC contacts can be adjusted by the installer; in the case of doors of considerable size, the operating angle can be reduced down to 1°, by using a screwdriver on the adjustment screw.

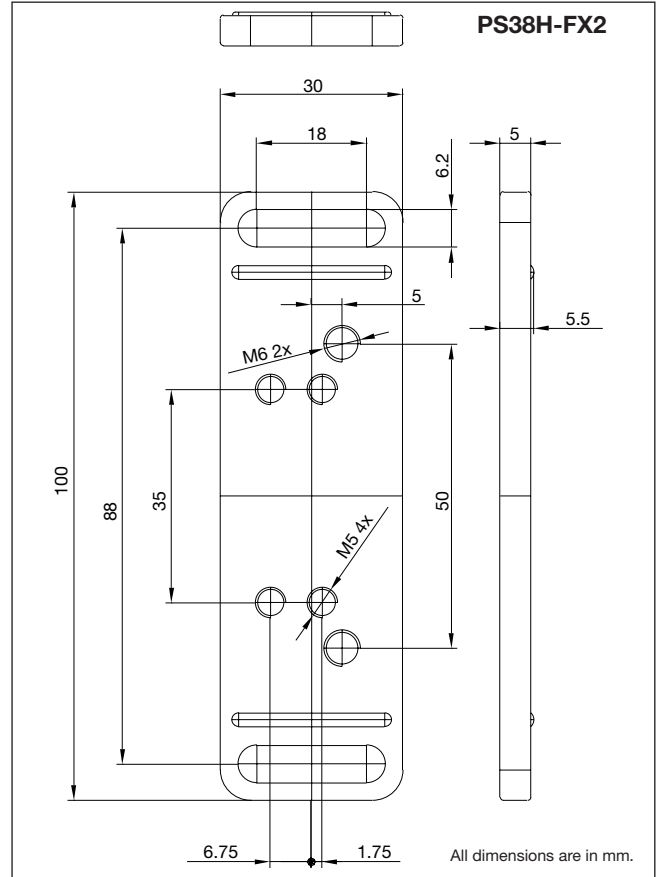
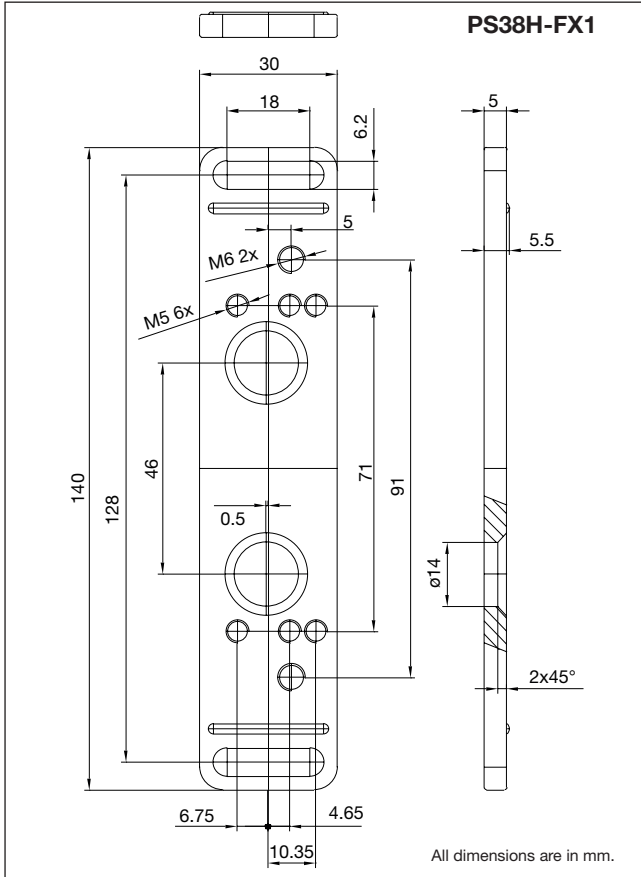
Dimensions



Dimensions



Accessories



Accessories

| Code | Description |
|------------|---|
| PS38H-COMP | Complementary mechanical hinge |
| PS38H-FX1 | Mounting bracket, pair of supports for safety hinge PS38H (fixing screws for switch included) |
| PS38H-FX2 | Mounting bracket, pair of supports for complementary hinges PS38H-COMP (fixing screws for switch included) |

AVAILABLE PORTFOLIO CONFIGURATIONS

Flush Round Push Buttons

| | |
|-----------|-----------|
| PB22BF0B | PB22BIF0Y |
| PB22BF0G | PB22SF0B |
| PB22BF0K | PB22SF0G |
| PB22BF0R | PB22SF0K |
| PB22BF0W | PB22SF0R |
| PB22BF0Y | PB22SF0Y |
| PB22BIF0B | PB22SIF0G |
| PB22BIF0G | PB22SIF0R |
| PB22BIF0R | PB22SIF1G |
| PB22BIF0W | |

Extended Push Buttons

| | |
|-----------|-----------|
| PB22BE0G | PB22BIE0Y |
| PB22BE0K | PB22SIE0G |
| PB22BE0R | PB22SIE0R |
| PB22BIE0R | |

Red Emergency Stop Push Buttons

| | |
|-------------|------------|
| PB22BEM41R | PB22SEM41R |
| PB22BEM61R | PB22SEM61R |
| PB22BKEM41R | |

Mushroom Push Buttons

| | |
|------------|-------------|
| PB22BIM41R | PB22SM40K |
| PB22BM40G | PB22SM40R |
| PB22BM40R | PB22SM41G |
| PB22BM41R | PB22SM41R |
| PB22BM60R | PB22SPPM41R |
| PB22SIM40R | PB22SPPM61R |
| PB22SIM41R | |

Buzzer and Flashing Buzzer

| | |
|--------------|---------------|
| PL22SBZK110 | PL22SFBZR110 |
| PL22SBZK12 | PL22SFBZR12 |
| PL22SBZK220A | PL22SFBZR220A |
| PL22SBZK24 | PL22SFBZR24 |

Two Color Pilot Lights

| | |
|---------------|-------------|
| PL22STCRG110 | PL22STCRG24 |
| PL22STCRG220A | |

Pilot Lights

| | |
|--------------|--------------|
| PL22CHLB110 | PL22SFLG24 |
| PL22CHLB24 | PL22SFLR110 |
| PL22CHLG110 | PL22SFLR24 |
| PL22CHLG24 | PL22SFLW110 |
| PL22CHLR110 | PL22SFLW24 |
| PL22CHLR24 | PL22SFLY110 |
| PL22CHLW110 | PL22SFLY24 |
| PL22CHLW24 | PL22SHLG110 |
| PL22CHLY110 | PL22SHLG220A |
| PL22CHLY24 | PL22SHLG24 |
| PL22CLLB220A | PL22SHLR110 |
| PL22CLLB24 | PL22SHLR12 |
| PL22CLLG110 | PL22SHLR220A |
| PL22CLLG220A | PL22SHLR24 |
| PL22CLLG24 | PL22SHLW110 |
| PL22CLLR110 | PL22SHLW24 |
| PL22CLLR220A | PL22SHLY110 |
| PL22CLLR24 | PL22SHLY24 |
| PL22CLLW110 | PL22SLLG110 |
| PL22CLLW220A | PL22SLLG220A |
| PL22CLLW24 | PL22SLLG24 |
| PL22CLLY110 | PL22SLLR110 |
| PL22CLLY12 | PL22SLLR220A |
| PL22CLLY220A | PL22SLLR24 |
| PL22CLLY24 | PL22SLLW24 |
| PL22CRLB24 | PL22SLLY24 |
| PL22SFLB24 | PL22SRLR110 |
| PL22SFLG110 | |

Short-Handle Selector Switches

| | |
|--------------|--------------|
| PB22BSRS21K | PB22SISRS21W |
| PB22BSRS22K | PB22SISRS31G |
| PB22BSRS31K | PB22SSRS21K |
| PB22BSRS33K | PB22SSRS31K |
| PB22SISRS21R | PB22SSRS32K |

Long-Handle Selector Switches

| | |
|-------------|-------------|
| PB22BLRS21K | PB22SLRS31K |
| PB22BLRS31K | PB22SLRS32K |
| PB22SLRS21K | |

I/O Push Buttons

| | |
|------------|-------------|
| PB22SIO0RG | PB22SIOL0RG |
|------------|-------------|

Key Selector Switches

| | |
|--------------|--------------|
| PB22SKRS21KL | PB22SKRS21KR |
|--------------|--------------|

Push Button Boxes

| | |
|-----------|-----------|
| PBBOX1HBG | PBBOX3HBY |
| PBBOX1HBY | PBBOX4HBG |
| PBBOX2HBG | PBBOX4HBY |
| PBBOX2HBY | PBBOX5HBG |
| PBBOX3HBG | |

Lamp Element

| | |
|-------------|------------|
| PALAMPB110 | PALAMPR24 |
| PALAMPB24 | PALAMPW110 |
| PALAMPG110 | PALAMPW12 |
| PALAMPG220A | PALAMPW24 |
| PALAMPG24 | PALAMPY110 |
| PALAMPR110 | PALAMPY24 |
| PALAMPR220A | |

Contact Block

| | |
|----------|----------|
| PA2010/1 | PA2100/2 |
| PA2010/2 | PA2110/1 |
| PA2020/1 | PA2110/2 |
| PA2020/2 | PA2200/1 |
| PA2100/1 | PA2200/2 |

Accessories

| | |
|-----------|----------|
| PASEALCOV | PAWP6 |
| PAPBCOV | PAWP9 |
| PAMR22 | PAPHC22 |
| PALBF11 | PARR3 |
| PALBF18 | PAPLCONN |

Holders

| | |
|-------|-------|
| PBMBM | PBMBP |
| PBMBN | |

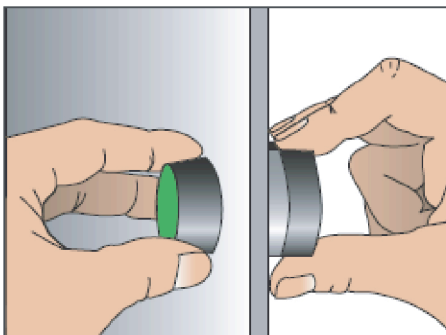
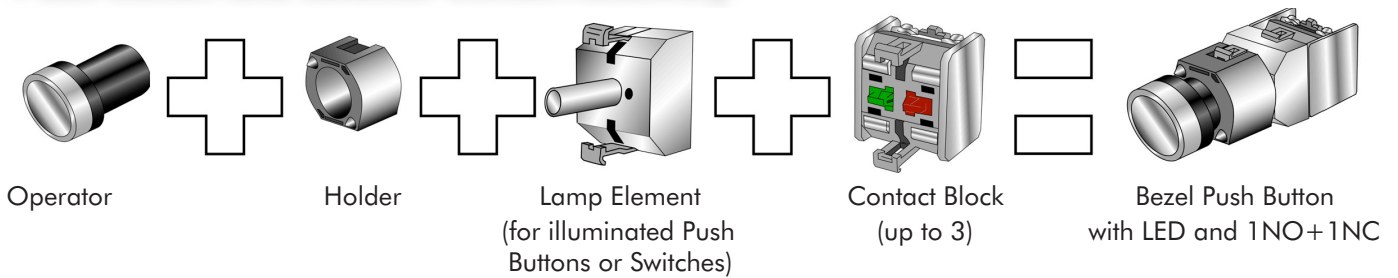
Push Button, Switch, Buzzer and LED Pilot Light

Quick Selection Guide

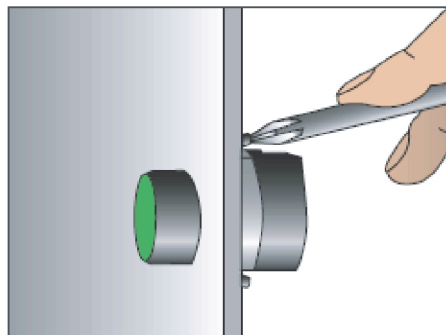


This quick selection guide is designed to help you quickly and accurately select all of the components needed to create a custom Push Button assembly, or to select the correct pilot device for an application. Simply determine which features are required, and find a part number that meets the requirement on the following pages. Many accessory items are available, for a truly custom fit.

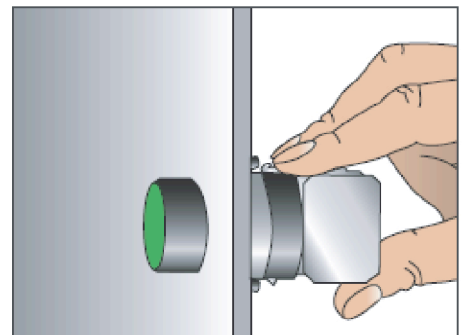
Push Button and Selector Switch Assembly



The operator will be inserted into the panel.



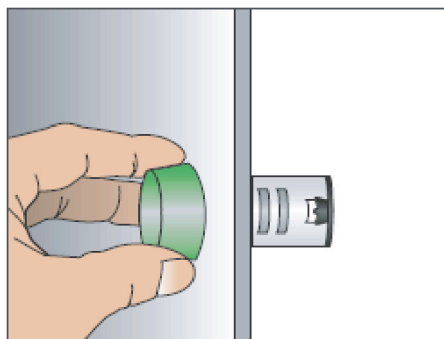
The holder will be secured at the back by two screws or nut.



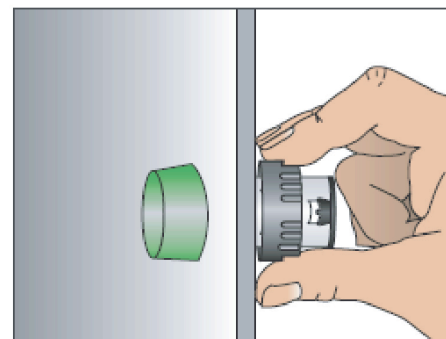
The contact block is snapped on.

Pilot Light Assembly

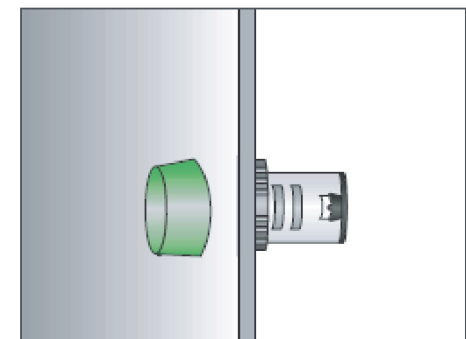
Pilot lights and buzzers are simple to select and install. Simply determine the color, lens type, voltage, and find the correct part number - no other components are required.



Just insert the pilot light in the the hole of the panel.



The pilot light will be secured at the back by the plastic nut.



The pilot light has been installed.

Push Button Operators - Illuminated

| Hole Size | Type | Mounting Ring | Action | Red | White | Black | Blue | Yellow | Green |
|-----------|-------------|---------------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 22mm | Flush Round | Standard | Spring Return | PB22SIF0R | PB22SIF0W | PB22SIF0K | PB22SIF0B | PB22SIF0Y | PB22SIF0G |
| | | | Maintained | PB22SIF1R | PB22SIF1W | PB22SIF1K | PB22SIF1B | PB22SIF1Y | PB22SIF1G |
| | | Bezel | Spring Return | PB22BIF0R | PB22BIF0W | PB22BIF0K | PB22BIF0B | PB22BIF0Y | PB22BIF0G |
| | | | Maintained | PB22BIF1R | PB22BIF1W | PB22BIF1K | PB22BIF1B | PB22BIF1Y | PB22BIF1G |
| | Extended | Standard | Spring Return | PB22SIE0R | PB22SIE0W | PB22SIE0K | PB22SIE0B | PB22SIE0Y | PB22SIE0G |
| | | | Maintained | PB22SIE1R | PB22SIE1W | PB22SIE1K | PB22SIE1B | PB22SIE1Y | PB22SIE1G |
| | | Bezel | Spring Return | PB22BIE0R | PB22BIE0W | PB22BIE0K | PB22BIE0B | PB22BIE0Y | PB22BIE0G |
| | | | Maintained | PB22BIE1R | PB22BIE1W | PB22BIE1K | PB22BIE1B | PB22BIE1Y | PB22BIE1G |
| 30mm | Flush Round | Flush | Spring Return | PB30FIF0R | PB30FIF0W | PB30FIF0K | PB30FIF0B | PB30FIF0Y | PB30FIF0G |
| | | | Maintained | PB30FIF1R | PB30FIF1W | PB30FIF1K | PB30FIF1B | PB30FIF1Y | PB30FIF1G |
| | Extended | Flush | Spring Return | PB30FIE0R | PB30FIE0W | PB30FIE0K | PB30FIE0B | PB30FIE0Y | PB30FIE0G |
| | | | Maintained | PB30FIE1R | PB30FIE1W | PB30FIE1K | PB30FIE1B | PB30FIE1Y | PB30FIE1G |

Push Button Operators - Non-Illuminated

| Hole Size | Type | Mounting Ring | Action | Red | White | Black | Blue | Yellow | Green |
|-----------|-------------|---------------|---------------|----------|----------|----------|----------|----------|----------|
| 22mm | Flush Round | Standard | Spring Return | PB22SF0R | PB22SF0W | PB22SF0K | PB22SF0B | PB22SF0Y | PB22SF0G |
| | | | Maintained | PB22SF1R | PB22SF1W | PB22SF1K | PB22SF1B | PB22SF1Y | PB22SF1G |
| | | Bezel | Spring Return | PB22BF0R | PB22BF0W | PB22BF0K | PB22BF0B | PB22BF0Y | PB22BF0G |
| | | | Maintained | PB22BF1R | PB22BF1W | PB22BF1K | PB22BF1B | PB22BF1Y | PB22BF1G |
| | Extended | Standard | Spring Return | PB22SE0R | PB22SE0W | PB22SE0K | PB22SE0B | PB22SE0Y | PB22SE0G |
| | | | Maintained | PB22SE1R | PB22SE1W | PB22SE1K | PB22SE1B | PB22SE1Y | PB22SE1G |
| | | Bezel | Spring Return | PB22BE0R | PB22BE0W | PB22BE0K | PB22BE0B | PB22BE0Y | PB22BE0G |
| | | | Maintained | PB22BE1R | PB22BE1W | PB22BE1K | PB22BE1B | PB22BE1Y | PB22BE1G |
| 30mm | Flush Round | Flush | Spring Return | PB30FF0R | PB30FF0W | PB30FF0K | PB30FF0B | PB30FF0Y | PB30FF0G |
| | | | Maintained | PB30FF1R | PB30FF1W | PB30FF1K | PB30FF1B | PB30FF1Y | PB30FF1G |
| | Extended | Flush | Spring Return | PB30FE0R | PB30FE0W | PB30FE0K | PB30FE0B | PB30FE0Y | PB30FE0G |
| | | | Maintained | PB30FE1R | PB30FE1W | PB30FE1K | PB30FE1B | PB30FE1Y | PB30FE1G |

Mushroom Push Button Operators - Illuminated

| Hole Size | Button Size | Mounting Ring | Action | Red | White | Black | Yellow | Green |
|-----------|-------------|---------------|---------------|------------|------------|-------|------------|------------|
| 22mm | 40mm | Standard | Spring Return | PB22SIM40R | PB22SIM40W | - | PB22SIM40Y | PB22SIM40G |
| | | | Maintained | PB22SIM41R | PB22SIM41W | - | PB22SIM41Y | PB22SIM41G |
| | | Bezel | Spring Return | PB22BIM40R | PB22BIM40W | - | PB22BIM40Y | PB22BIM40G |
| | | | Maintained | PB22BIM41R | PB22BIM41W | - | PB22BIM41Y | PB22BIM41G |
| | 60mm | Standard | Spring Return | PB22SIM60R | PB22SIM60W | - | PB22SIM60Y | PB22SIM60G |
| | | | Maintained | PB22SIM61R | PB22SIM61W | - | PB22SIM61Y | PB22SIM61G |
| | | Bezel | Spring Return | PB22BIM60R | PB22BIM60W | - | PB22BIM60Y | PB22BIM60G |
| | | | Maintained | PB22BIM61R | PB22BIM61W | - | PB22BIM61Y | PB22BIM61G |
| 30mm | 40mm | Flush | Spring Return | PB30FIM40R | PB30FIM40W | - | PB30FIM40Y | PB30FIM40G |
| | | | Maintained | PB30FIM41R | PB30FIM41W | - | PB30FIM41Y | PB30FIM41G |
| | 60mm | Flush | Spring Return | PB30FIM60R | PB30FIM60W | - | PB30FIM60Y | PB30FIM60G |
| | | | Maintained | PB30FIM61R | PB30FIM61W | - | PB30FIM61Y | PB30FIM61G |

Mushroom Push Button Operators - Non-Illuminated


| Hole Size | Button Size | Mounting Ring | Action | Red | White | Black | Yellow | Green |
|-----------|-------------|---------------|---------------|-----------|-------|-----------|-----------|-----------|
| 22mm | 40mm | Standard | Spring Return | PB22SM40R | - | PB22SM40K | PB22SM40Y | PB22SM40G |
| | | | Maintained | PB22SM41R | - | PB22SM41K | PB22SM41Y | PB22SM41G |
| | | Bezel | Spring Return | PB22BM40R | - | PB22BM40K | PB22BM40Y | PB22BM40G |
| | | | Maintained | PB22BM41R | - | PB22BM41K | PB22BM41Y | PB22BM41G |
| | 60mm | Standard | Spring Return | PB22SM60R | - | PB22SM60K | PB22SM60Y | PB22SM60G |
| | | | Maintained | PB22SM61R | - | PB22SM61K | PB22SM61Y | PB22SM61G |
| | | Bezel | Spring Return | PB22BM60R | - | PB22BM60K | PB22BM60Y | PB22BM60G |
| | | | Maintained | PB22BM61R | - | PB22BM61K | PB22BM61Y | PB22BM61G |
| 30mm | 40mm | Flush | Spring Return | PB30FM40R | - | PB30FM40K | PB30FM40Y | PB30FM40G |
| | | | Maintained | PB30FM41R | - | PB30FM41K | PB30FM41Y | PB30FM41G |
| | 60mm | Flush | Spring Return | PB30FM60R | - | PB30FM60K | PB30FM60Y | PB30FM60G |
| | | | Maintained | PB30FM61R | - | PB30FM61K | PB30FM61Y | PB30FM61G |




Emergency Stop Buttons - Non-Illuminated, Maintained Action








| Hole Size | Button Size | Mounting Ring | Reset | Red |
|-----------|-------------|---------------|-------|------------|
| 22mm | 40mm | Standard | Twist | PB22SEM41R |
| | | | Key | PB22SKM41R |
| | | Bezel | Twist | PB22BEM41R |
| | | | Key | PB22BKM41R |
| | 60mm | Standard | Twist | PB22SEM61R |
| | | Bezel | Twist | PB22BEM61R |
| 30mm | 40mm | Flush | Twist | PB30FEM41R |
| | | | Key | PB30FKM41R |
| | 60mm | Flush | Twist | PB30FEM61R |

I/O Push Buttons



| Hole Size | Illuminated | |
|-----------|-------------|-------------|
| 22mm | Yes | PB22SIO0RG |
| | No | PB22SIOL0RG |
























| Selector Switches - Illuminated | | | | | | | | | |
|---------------------------------|-------------|--|--------------|--------------|--------------|-------|--------------|--------------|--------------|
| Hole Size | Handle Type | Mounting Ring | Action | Red | White | Black | Blue | Yellow | Green |
| 22mm | Short |  Standard | 2 Pos. L R | PB22SISRS21R | PB22SISRS21W | - | PB22SISRS21B | PB22SISRS21Y | PB22SISRS21G |
| | | | 3 Pos. L C R | PB22SISRS31R | PB22SISRS31W | - | PB22SISRS31B | PB22SISRS31Y | PB22SISRS31G |
| | |  Bezel | 2 Pos. L R | PB22BISRS21R | PB22BISRS21W | - | PB22BISRS21B | PB22BISRS21Y | PB22BISRS21G |
| | | | 3 Pos. L C R | PB22BISRS31R | PB22BISRS31W | - | PB22BISRS31B | PB22BISRS31Y | PB22BISRS31G |
| 30mm | Short |  Flush | 2 Pos. L R | PB30FISRS21R | PB30FISRS21W | - | PB30FISRS21B | PB30FISRS21Y | PB30FISRS21G |
| | | | 3 Pos. L C R | PB30FISRS31R | PB30FISRS31W | - | PB30FISRS31B | PB30FISRS31Y | PB30FISRS31G |

| Selector Switches - Non-Illuminated | | | | | | | | | |
|-------------------------------------|-------------|---|------------------|-------------|-------|-------------|------|-------------|-------------|
| Hole Size | Handle Type | Mounting Ring | Action | Red | White | Black | Blue | Yellow | Green |
| 22mm | Short |  Standard | 2 Pos. L R | PB22SSRS21R | - | PB22SSRS21K | - | PB22SSRS21Y | PB22SSRS21G |
| | | | 2 Pos. L ↗ C | PB22SSRS22R | - | PB22SSRS22K | - | PB22SSRS22Y | PB22SSRS22G |
| | | | 2 Pos. C ↖ R | PB22SSRS23R | - | PB22SSRS23K | - | PB22SSRS23Y | PB22SSRS23G |
| | | | 3 Pos. L C R | PB22SSRS31R | - | PB22SSRS31K | - | PB22SSRS31Y | PB22SSRS31G |
| | | | 3 Pos. L ↗ C ↖ R | PB22SSRS32R | - | PB22SSRS32K | - | PB22SSRS32Y | PB22SSRS32G |
| | | | 3 Pos. L ↗ C R | PB22SSRS33R | - | PB22SSRS33K | - | PB22SSRS33Y | PB22SSRS33G |
| | |  Bezel | 3 Pos. L C ↖ R | PB22SSRS34R | - | PB22SSRS34K | - | PB22SSRS34Y | PB22SSRS34G |
| | | | 2 Pos. L R | PB22BSRS21R | - | PB22BSRS21K | - | PB22BSRS21Y | PB22BSRS21G |
| | | | 2 Pos. L ↗ C | PB22BSRS22R | - | PB22BSRS22K | - | PB22BSRS22Y | PB22BSRS22G |
| | | | 2 Pos. C ↖ R | PB22BSRS23R | - | PB22BSRS23K | - | PB22BSRS23Y | PB22BSRS23G |
| | | | 3 Pos. L C R | PB22BSRS31R | - | PB22BSRS31K | - | PB22BSRS31Y | PB22BSRS31G |
| | | | 3 Pos. L ↗ C ↖ R | PB22BSRS32R | - | PB22BSRS32K | - | PB22BSRS32Y | PB22BSRS32G |
| | Long |  Standard | 3 Pos. L ↗ C R | PB22BSRS33R | - | PB22BSRS33K | - | PB22BSRS33Y | PB22BSRS33G |
| | | | 3 Pos. L C ↖ R | PB22BSRS34R | - | PB22BSRS34K | - | PB22BSRS34Y | PB22BSRS34G |
| | | | 2 Pos. L R | PB22SLRS21R | - | PB22SLRS21K | - | PB22SLRS21Y | PB22SLRS21G |
| | | | 2 Pos. L ↗ C | PB22SLRS22R | - | PB22SLRS22K | - | PB22SLRS22Y | PB22SLRS22G |
| | | | 2 Pos. C ↖ R | PB22SLRS23R | - | PB22SLRS23K | - | PB22SLRS23Y | PB22SLRS23G |
| | | | 3 Pos. L C R | PB22SLRS31R | - | PB22SLRS31K | - | PB22SLRS31Y | PB22SLRS31G |
| | |  Bezel | 3 Pos. L ↗ C ↖ R | PB22SLRS32R | - | PB22SLRS32K | - | PB22SLRS32Y | PB22SLRS32G |
| | | | 3 Pos. L ↗ C R | PB22SLRS33R | - | PB22SLRS33K | - | PB22SLRS33Y | PB22SLRS33G |
| | | | 3 Pos. L C ↖ R | PB22SLRS34R | - | PB22SLRS34K | - | PB22SLRS34Y | PB22SLRS34G |
| | | | 2 Pos. L R | PB22BLRS21R | - | PB22BLRS21K | - | PB22BLRS21Y | PB22BLRS21G |
| | | | 2 Pos. L ↗ C | PB22BLRS22R | - | PB22BLRS22K | - | PB22BLRS22Y | PB22BLRS22G |
| | | | 2 Pos. C ↖ R | PB22BLRS23R | - | PB22BLRS23K | - | PB22BLRS23Y | PB22BLRS23G |
| 30mm | Short |  Flush | 3 Pos. L C R | PB22BLRS31R | - | PB22BLRS31K | - | PB22BLRS31Y | PB22BLRS31G |
| | | | 3 Pos. L ↗ C ↖ R | PB22BLRS32R | - | PB22BLRS32K | - | PB22BLRS32Y | PB22BLRS32G |
| | | | 3 Pos. L ↗ C R | PB22BLRS33R | - | PB22BLRS33K | - | PB22BLRS33Y | PB22BLRS33G |
| | | | 3 Pos. L C ↖ R | PB22BLRS34R | - | PB22BLRS34K | - | PB22BLRS34Y | PB22BLRS34G |
| | | | 2 Pos. L R | PB30FSRS21R | - | PB30FSRS21K | - | PB30FSRS21Y | PB30FSRS21G |
| | | | 2 Pos. L ↗ C | PB30FSRS22R | - | PB30FSRS22K | - | PB30FSRS22Y | PB30FSRS22G |
| | Long |  Flush | 2 Pos. C ↖ R | PB30FSRS23R | - | PB30FSRS23K | - | PB30FSRS23Y | PB30FSRS23G |
| | | | 3 Pos. L C R | PB30FSRS31R | - | PB30FSRS31K | - | PB30FSRS31Y | PB30FSRS31G |
| | | | 3 Pos. L ↗ C ↖ R | PB30FSRS32R | - | PB30FSRS32K | - | PB30FSRS32Y | PB30FSRS32G |
| | | | 3 Pos. L ↗ C R | PB30FSRS33R | - | PB30FSRS33K | - | PB30FSRS33Y | PB30FSRS33G |
| | | | 3 Pos. L C ↖ R | PB30FSRS34R | - | PB30FSRS34K | - | PB30FSRS34Y | PB30FSRS34G |
| | | | 2 Pos. L R | PB30FLRS21R | - | PB30FLRS21K | - | PB30FLRS21Y | PB30FLRS21G |
| 30mm | Long |  Flush | 2 Pos. L ↗ C | PB30FLRS22R | - | PB30FLRS22K | - | PB30FLRS22Y | PB30FLRS22G |
| | | | 2 Pos. C ↖ R | PB30FLRS23R | - | PB30FLRS23K | - | PB30FLRS23Y | PB30FLRS23G |
| | | | 3 Pos. L C R | PB30FLRS31R | - | PB30FLRS31K | - | PB30FLRS31Y | PB30FLRS31G |
| | | | 3 Pos. L ↗ C ↖ R | PB30FLRS32R | - | PB30FLRS32K | - | PB30FLRS32Y | PB30FLRS32G |
| | | | 3 Pos. L ↗ C R | PB30FLRS33R | - | PB30FLRS33K | - | PB30FLRS33Y | PB30FLRS33G |
| | | | 3 Pos. L C ↖ R | PB30FLRS34R | - | PB30FLRS34K | - | PB30FLRS34Y | PB30FLRS34G |










(Note: Arrows indicate spring return function)


| Key Selector Switches | | | | | |
|-----------------------|--|--------------|--------------|----------------|---------------|
| Hole Size | Mounting Ring | Action | Left Extract | Center Extract | Right Extract |
| 22mm |  Standard | 2 Pos. L R | PB22SKRS21KL | - | PB22SKRS21KR |
| | | 3 Pos. L C R | PB22SKRS31KL | PB22SKRS31KC | PB22SKRS31KR |
| 30mm |  Flush | 2 Pos. L R | PB30FKRS21 | - | PB30FKRS21 |
| | | 3 Pos. L C R | PB30FKRS31 | PB30FKRS31 | PB30FKRS31 |

(Note: PB30F types allow key to be extracted from any position)


| Contact Blocks | | | Holders | | |
|---|---|---|---|-------------|-------------|
| Configuration |  Snap Action |  Slow Action |  | Metal | PBMBM |
| 2 NO (DPST) | PA2200/1 | PA2200/2 |  | Plastic | PBMBP |
| 2 NC (DPST) | PA2020/1 | PA2020/2 |  | Nut | PBMBN |
| 1 NC (SPST) | PA2010/1 | PA2010/2 | | | |
| 1 NO (SPST) | PA2100/1 | PA2100/2 | | | |
| 1 NC + 1 NO (DPST) | PA2110/1 | PA2110/2 | | | |
| Lamp Elements | | | | | |
| Voltage |  Red |  White | Blue | Yellow | Green |
| 6 VAC/DC | PALAMPR06 | PALAMPW06 | PALAMPB06 | PALAMPY06 | PALAMPG06 |
| 12 VAC/DC | PALAMPR12 | PALAMPW12 | PALAMPB12 | PALAMPY12 | PALAMPG12 |
| 24 VAC/DC | PALAMPR24 | PALAMPW24 | PALAMPB24 | PALAMPY24 | PALAMPG24 |
| 48 VAC/DC | PALAMPR48 | PALAMPW48 | PALAMPB48 | PALAMPY48 | PALAMPG48 |
| 110 VAC/DC | PALAMPR110 | PALAMPW110 | PALAMPB110 | PALAMPY110 | PALAMPG110 |
| 220 VDC | PALAMPR220D | PALAMPW220D | PALAMPB220D | PALAMPY220D | PALAMPG220D |
| 220 VAC | PALAMPR220A | PALAMPW220A | PALAMPB220A | PALAMPY220A | PALAMPG220A |
| 380 VAC | PALAMPR380A | PALAMPW380A | PALAMPB380A | PALAMPY380A | PALAMPG380A |
| Accessories for Push Buttons | | | | | |
| Picture | Accessories for Push Buttons | | | Part Number | |
|  | Seal Cover for IP67 Rating | | | PASEALCOV | |
|  | Shield for preventing accidental hit | | | PAPBSHIELD | |
|  | Protection cover - lockable | | | PAPBCOV | |
|  | Terminal shield - protect against electrical shock | | | PA2SHIELD | |
|  | Mounting ring - 22mm hole | | | PAMR22 | |
|  | Mounting ring - 25mm hole | | | PAMR25 | |
|  | Front bezel set - 30mm hole | | | PAFBZL30 | |
|  | Label frame for adding description - 10mm | | | PALBF11 | |
|  | Label frame for adding description - 18mm | | | PALBF18 | |
|  | Emergency Stop plate - 60mm diameter | | | PAWP6 | |
|  | Emergency Stop plate - 90mm diameter | | | PAWP9 | |
|  | Yellow Protection Ring for preventing accidental hit - 60mm | | | PAYPR4 | |
|  | Yellow Protection Ring for preventing accidental hit - 40mm | | | PAYPR6 | |
|  | Panel hole cap for unused 22mm holes | | | PAPHC22 | |

Pilot Lights





| Size | Type | Voltage | Red | White | Blue | Yellow | Green | | |
|---|---|---|---|--------------|--------------|--------------|--------------|--------------|------------|
| 22mm Standard (50mm behind panel depth) |  High Lens | 6 VAC/DC | PL22SHLR06 | PL22SHLW06 | PL22SHLB06 | PL22SHLY06 | PL22SHLG06 | | |
| | | 12 VAC/DC | PL22SHLR12 | PL22SHLW12 | PL22SHLB12 | PL22SHLY12 | PL22SHLG12 | | |
| | | 24 VAC/DC | PL22SHLR24 | PL22SHLW24 | PL22SHLB24 | PL22SHLY24 | PL22SHLG24 | | |
| | | 48 VAC/DC | PL22SHLR48 | PL22SHLW48 | PL22SHLB48 | PL22SHLY48 | PL22SHLG48 | | |
| | | 110 VAC/DC | PL22SHLR110 | PL22SHLW110 | PL22SHLB110 | PL22SHLY110 | PL22SHLG110 | | |
| | | 220 VDC | PL22SHLR220D | PL22SHLW220D | PL22SHLB220D | PL22SHLY220D | PL22SHLG220D | | |
| | | 220 VAC | PL22SHLR220A | PL22SHLW220A | PL22SHLB220A | PL22SHLY220A | PL22SHLG220A | | |
| | | 380 VAC | PL22SHLR380A | PL22SHLW380A | PL22SHLB380A | PL22SHLY380A | PL22SHLG380A | | |
| | |  Concentric Lens | 6 VAC/DC | PL22SRLR06 | PL22SRLW06 | PL22SRLB06 | PL22SRLY06 | PL22SRLG06 | |
| | | | 12 VAC/DC | PL22SRLR12 | PL22SRLW12 | PL22SRLB12 | PL22SRLY12 | PL22SRLG12 | |
| | | | 24 VAC/DC | PL22SRLR24 | PL22SRLW24 | PL22SRLB24 | PL22SRLY24 | PL22SRLG24 | |
| | | | 48 VAC/DC | PL22SRLR48 | PL22SRLW48 | PL22SRLB48 | PL22SRLY48 | PL22SRLG48 | |
| | 110 VAC/DC | | PL22SRLR110 | PL22SRLW110 | PL22SRLB110 | PL22SRLY110 | PL22SRLG110 | | |
| | 220 VDC | | PL22SRLR220D | PL22SRLW220D | PL22SRLB220D | PL22SRLY220D | PL22SRLG220D | | |
| | 220 VAC | | PL22SRLR220A | PL22SRLW220A | PL22SRLB220A | PL22SRLY220A | PL22SRLG220A | | |
| | 380 VAC | | PL22SRLR380A | PL22SRLW380A | PL22SRLB380A | PL22SRLY380A | PL22SRLG380A | | |
| |  Low Lens | | 6 VAC/DC | PL22SLLR06 | PL22SLLW06 | PL22SLLB06 | PL22SLLY06 | PL22SLLG06 | |
| | | | 12 VAC/DC | PL22SLLR12 | PL22SLLW12 | PL22SLLB12 | PL22SLLY12 | PL22SLLG12 | |
| | | | 24 VAC/DC | PL22SLLR24 | PL22SLLW24 | PL22SLLB24 | PL22SLLY24 | PL22SLLG24 | |
| | | | 48 VAC/DC | PL22SLLR48 | PL22SLLW48 | PL22SLLB48 | PL22SLLY48 | PL22SLLG48 | |
| | | 110 VAC/DC | PL22SLLR110 | PL22SLLW110 | PL22SLLB110 | PL22SLLY110 | PL22SLLG110 | | |
| | | 220 VDC | PL22SLLR220D | PL22SLLW220D | PL22SLLB220D | PL22SLLY220D | PL22SLLG220D | | |
| | | 220 VAC | PL22SLLR220A | PL22SLLW220A | PL22SLLB220A | PL22SLLY220A | PL22SLLG220A | | |
| | | 380 VAC | PL22SLLR380A | PL22SLLW380A | PL22SLLB380A | PL22SLLY380A | PL22SLLG380A | | |
| | |  Teeth Lens | 6 VAC/DC | PL22STLR06 | PL22STLW06 | PL22STLB06 | PL22STLY06 | PL22STLG06 | |
| | | | 12 VAC/DC | PL22STLR12 | PL22STLW12 | PL22STLB12 | PL22STLY12 | PL22STLG12 | |
| | | | 24 VAC/DC | PL22STLR24 | PL22STLW24 | PL22STLB24 | PL22STLY24 | PL22STLG24 | |
| | | | 48 VAC/DC | PL22STLR48 | PL22STLW48 | PL22STLB48 | PL22STLY48 | PL22STLG48 | |
| | 110 VAC/DC | | PL22STLR110 | PL22STLW110 | PL22STLB110 | PL22STLY110 | PL22STLG110 | | |
| | 220 VDC | | PL22STLR220D | PL22STLW220D | PL22STLB220D | PL22STLY220D | PL22STLG220D | | |
| | 220 VAC | | PL22STLR220A | PL22STLW220A | PL22STLB220A | PL22STLY220A | PL22STLG220A | | |
| | 380 VAC | | PL22STLR380A | PL22STLW380A | PL22STLB380A | PL22STLY380A | PL22STLG380A | | |
| |  Flashing Light | | 6 VAC/DC | PL22SFLR06 | PL22SFLW06 | PL22SFLB06 | PL22SFLY06 | PL22SFLG06 | |
| | | | 12 VAC/DC | PL22SFLR12 | PL22SFLW12 | PL22SFLB12 | PL22SFLY12 | PL22SFLG12 | |
| | | | 24 VAC/DC | PL22SFLR24 | PL22SFLW24 | PL22SFLB24 | PL22SFLY24 | PL22SFLG24 | |
| | | | 48 VAC/DC | PL22SFLR48 | PL22SFLW48 | PL22SFLB48 | PL22SFLY48 | PL22SFLG48 | |
| | | 110 VAC/DC | PL22SFLR110 | PL22SFLW110 | PL22SFLB110 | PL22SFLY110 | PL22SFLG110 | | |
| | | 220 VDC | PL22SFLR220D | PL22SFLW220D | PL22SFLB220D | PL22SFLY220D | PL22SFLG220D | | |
| | | 220 VAC | PL22SFLR220A | PL22SFLW220A | PL22SFLB220A | PL22SFLY220A | PL22SFLG220A | | |
| | | 380 VAC | PL22SFLR380A | PL22SFLW380A | PL22SFLB380A | PL22SFLY380A | PL22SFLG380A | | |
| | | 22mm Compact (39mm behind panel depth) |  High Lens | 6 VAC/DC | PL22CHLR06 | PL22CHLW06 | PL22CHLB06 | PL22CHLY06 | PL22CHLG06 |
| | | | | 12 VAC/DC | PL22CHLR12 | PL22CHLW12 | PL22CHLB12 | PL22CHLY12 | PL22CHLG12 |
| | | | | 24 VAC/DC | PL22CHLR24 | PL22CHLW24 | PL22CHLB24 | PL22CHLY24 | PL22CHLG24 |
| | | | | 48 VAC/DC | PL22CHLR48 | PL22CHLW48 | PL22CHLB48 | PL22CHLY48 | PL22CHLG48 |
| | 110 VAC/DC | | | PL22CHLR110 | PL22CHLW110 | PL22CHLB110 | PL22CHLY110 | PL22CHLG110 | |
| | 220 VDC | | | PL22CHLR220D | PL22CHLW220D | PL22CHLB220D | PL22CHLY220D | PL22CHLG220D | |
| | 220 VAC | | | PL22CHLR220A | PL22CHLW220A | PL22CHLB220A | PL22CHLY220A | PL22CHLG220A | |
| | 380 VAC | | | PL22CHLR380A | PL22CHLW380A | PL22CHLB380A | PL22CHLY380A | PL22CHLG380A | |
|  Concentric Lens | 6 VAC/DC | | | PL22CRLR06 | PL22CRLW06 | PL22CRLB06 | PL22CRLY06 | PL22CRLG06 | |
| | 12 VAC/DC | | | PL22CRLR12 | PL22CRLW12 | PL22CRLB12 | PL22CRLY12 | PL22CRLG12 | |
| | 24 VAC/DC | | | PL22CRLR24 | PL22CRLW24 | PL22CRLB24 | PL22CRLY24 | PL22CRLG24 | |
| | 48 VAC/DC | | | PL22CRLR48 | PL22CRLW48 | PL22CRLB48 | PL22CRLY48 | PL22CRLG48 | |
| | 110 VAC/DC | | PL22CRLR110 | PL22CRLW110 | PL22CRLB110 | PL22CRLY110 | PL22CRLG110 | | |
| | 220 VDC | | PL22CRLR220D | PL22CRLW220D | PL22CRLB220D | PL22CRLY220D | PL22CRLG220D | | |
| | 220 VAC | | PL22CRLR220A | PL22CRLW220A | PL22CRLB220A | PL22CRLY220A | PL22CRLG220A | | |
| | 380 VAC | | PL22CRLR380A | PL22CRLW380A | PL22CRLB380A | PL22CRLY380A | PL22CRLG380A | | |
| |  Low Lens | | 6 VAC/DC | PL22CLLR06 | PL22CLLW06 | PL22CLLB06 | PL22CLLY06 | PL22CLLG06 | |
| | | | 12 VAC/DC | PL22CLLR12 | PL22CLLW12 | PL22CLLB12 | PL22CLLY12 | PL22CLLG12 | |
| | | | 24 VAC/DC | PL22CLLR24 | PL22CLLW24 | PL22CLLB24 | PL22CLLY24 | PL22CLLG24 | |
| | | | 48 VAC/DC | PL22CLLR48 | PL22CLLW48 | PL22CLLB48 | PL22CLLY48 | PL22CLLG48 | |
| 110 VAC/DC | | | PL22CLLR110 | PL22CLLW110 | PL22CLLB110 | PL22CLLY110 | PL22CLLG110 | | |
| 220 VDC | | | PL22CLLR220D | PL22CLLW220D | PL22CLLB220D | PL22CLLY220D | PL22CLLG220D | | |
| 220 VAC | | | PL22CLLR220A | PL22CLLW220A | PL22CLLB220A | PL22CLLY220A | PL22CLLG220A | | |
| 380 VAC | | | PL22CLLR380A | PL22CLLW380A | PL22CLLB380A | PL22CLLY380A | PL22CLLG380A | | |
|  Teeth Lens | | 6 VAC/DC | PL22CTLR06 | PL22CTLW06 | PL22CTLB06 | PL22CTLY06 | PL22CTLG06 | | |
| | | 12 VAC/DC | PL22CTLR12 | PL22CTLW12 | PL22CTLB12 | PL22CTLY12 | PL22CTLG12 | | |
| | | 24 VAC/DC | PL22CTLR24 | PL22CTLW24 | PL22CTLB24 | PL22CTLY24 | PL22CTLG24 | | |
| | | 48 VAC/DC | PL22CTLR48 | PL22CTLW48 | PL22CTLB48 | PL22CTLY48 | PL22CTLG48 | | |
| | 110 VAC/DC | PL22CTLR110 | PL22CTLW110 | PL22CTLB110 | PL22CTLY110 | PL22CTLG110 | | | |
| | 220 VDC | PL22CTLR220D | PL22CTLW220D | PL22CTLB220D | PL22CTLY220D | PL22CTLG220D | | | |
| | 220 VAC | PL22CTLR220A | PL22CTLW220A | PL22CTLB220A | PL22CTLY220A | PL22CTLG220A | | | |
| | 380 VAC | PL22CTLR380A | PL22CTLW380A | PL22CTLB380A | PL22CTLY380A | PL22CTLG380A | | | |

| Pilot Lights - Two Color | | | | | |
|--|--|------------|---------------|--|--|
| Size | Type | Voltage | Part Number | | |
| 22mm Standard (50mm depth behind panel) |  Low Lens | 6 VAC/DC | PL22STCRG06 | | |
| | | 12 VAC/DC | PL22STCRG12 | | |
| | | 24 VAC/DC | PL22STCRG24 | | |
| | | 48 VAC/DC | PL22STCRG48 | | |
| | | 110 VAC/DC | PL22STCRG110 | | |
| | | 220 VDC | PL22STCRG220D | | |
| | | 220 VAC | PL22STCRG220A | | |
| | | 380 VAC | PL22STCRG380A | | |

Panel Indicator - Buzzer and Flashing Buzzer

| Size | Type | Voltage |  Red |  Black | |
|--|--|------------|---|---|--|
| 22mm Standard (50mm depth behind panel) |  Buzzer | 6 VAC/DC | - | PL22SBZK06 | |
| | | 12 VAC/DC | - | PL22SBZK12 | |
| | | 24 VAC/DC | - | PL22SBZK24 | |
| | | 48 VAC/DC | - | PL22SBZK48 | |
| | | 110 VAC/DC | - | PL22SBZK110 | |
| | | 220 VDC | - | PL22SBZK220D | |
| | | 220 VAC | - | PL22SBZK220A | |
| | | 380 VAC | - | PL22SBZK380A | |
| |  Flashing Buzzer | 6 VAC/DC | PL22SFBZR06 | - | |
| | | 12 VAC/DC | PL22SFBZR12 | - | |
| | | 24 VAC/DC | PL22SFBZR24 | - | |
| | | 48 VAC/DC | PL22SFBZR48 | - | |
| | | 110 VAC/DC | PL22SFBZR110 | - | |
| | | 220 VDC | PL22SFBZR220D | - | |
| | | 220 VAC | PL22SFBZR220A | - | |
| | | 380 VAC | PL22SFBZR380A | - | |

Accessories for Pilot Lights

| Picture | Description | Part Number |
|---|---|-------------|
|  | Reducing ring for Pilot Light - 25mm hole | PARR2 |
|  | Reducing ring for Pilot Light - 30mm hole | PARR3 |
|  | Fastening tool for Pilot Light | PAPLCONN |
|  | Panel hole cap for unused 22mm holes | PAPHC22 |

По вопросам продаж и поддержки обращайтесь:

| | | | |
|-----------------------------|---------------------------------|--------------------------------|---------------------------|
| Алматы (7273)495-231 | Казань (843)206-01-48 | Новокузнецк (3843)20-46-81 | Смоленск (4812)29-41-54 |
| Архангельск (8182)63-90-72 | Калининград (4012)72-03-81 | Новосибирск (383)227-86-73 | Сочи (862)225-72-31 |
| Астрахань (8512)99-46-04 | Калуга (4842)92-23-67 | Омск (3812)21-46-40 | Ставрополь (8652)20-65-13 |
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| Брянск (4832)59-03-52 | Краснодар (861)203-40-90 | Пенза (8412)22-31-16 | Томск (3822)98-41-53 |
| Владивосток (423)249-28-31 | Красноярск (391)204-63-61 | Пермь (342)205-81-47 | Тула (4872)74-02-29 |
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| Вологда (8172)26-41-59 | Липецк (4742)52-20-81 | Рязань (4912)46-61-64 | Ульяновск (8422)24-23-59 |
| Воронеж (473)204-51-73 | Магнитогорск (3519)55-03-13 | Самара (846)206-03-16 | Уфа (347)229-48-12 |
| Екатеринбург (343)384-55-89 | Москва (495)268-04-70 | Санкт-Петербург (812)309-46-40 | Хабаровск (4212)92-98-04 |
| Иваново (4932)77-34-06 | Мурманск (8152)59-64-93 | Саратов (845)249-38-78 | Челябинск (351)202-03-61 |
| Ижевск (3412)26-03-58 | Набережные Челны (8552)20-53-41 | Севастополь (8692)22-31-93 | Череповец (8202)49-02-64 |
| Иркутск (395)279-98-46 | Нижний Новгород (831)429-08-12 | Симферополь (3652)67-13-56 | Ярославль (4852)69-52-93 |
| Россия (495)268-04-70 | Киргизия (996)312-96-26-47 | Казахстан (7172)727-132 | |

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