#### Panel Actuators and Indicators **Type PB Red Emergency Stop Push Buttons**









#### PB 30F

#### **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.

### Approvals



#### Types

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

## Colour

R = Red



- Ø 30mm (Ø1.18") Flush 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 • EN 418
- IEC/EN 60947-5-5

#### Ordering key

PB 225 EM4 1 R

Series **Dimension and Style** Туре

Action

Colour

#### **Dimensions and styles**

**22S** = Ø22mm (Ø0.87") Standard style **22B** = Ø22mm (Ø0.87") Bezel style **30F** = Ø30mm (Ø1.18") Flush style

#### Action

1 = Maintained

## **General data**

Peripheral of actuator	AL
Actuator	Pa
Mechanical life	≥5 x 10⁴ 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



## Panel Actuators and Indicators Type PA2 Contact Block



# **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





#### Terminals

Screw terminals2 x 2.5mm² (0.004sq.inch)Max. section sigle-core wire2 x 1.5mm² (0.002sq.inch)Max. section stranded wire2 x 1.5mm² (0.002sq.inch)Copper conductor wire14 AWGTerminal tightening torque1.2Nm (10.6in.lb.)

## Technical data

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

#### Wiring diagram



• 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
- IEC/EN 60947-5-1, IEC/EN 60947-5-5, UL 508

## Ordering key

Туре ———

Number of contacts

tacts

Contact code ——

Options (1 = Snap action

**2 = Slow action** with forced opening  $\rightarrow$  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 @ 25	50VAC	
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	-
Thermal Contact Rating	10A (A60	0) 5A (I	B600)
(acc. to UL 508)	2.5A (Q60	0/Q300)	
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
<b>Q600</b> (100, 200 slow codes)	@ 250V	0.27A	0.27A
Q300 (010, 020, 110 slow codes)	@ 480V	0.10A	-
	@ 600V	0.10A	-

#### **Dimensions** mm/inches



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PA 2 110 / 1



#### Holders

<b>Holder type "M"</b> Code Material	PB MB M Zn + PBT	27/1.06"	20/0.79"
<b>Holder type "P"</b> Code Material	PB MB P PBT	30/1.18"	20/0.79"
<b>Holder type "N"</b> Code Material	PB MB N PC	29/1.14"	23/0.91"

### **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).











Operator

Holder

Contact block

Bezel Push Button with PA2

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.

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#### **Accessories for Panel Actuators**

