Panel Actuators and Indicators
Type PB
Red Emergency Stop Push Buttons

CARLO GAVAZZI

PB 22S

PB 22B

PB 30F
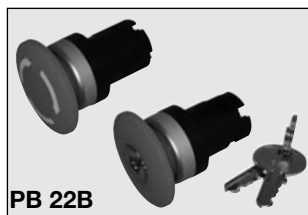
- Ø 22mm (Ø0.87") Standard and bezel style
- Ø 30mm (Ø1.18") Flush style
- Mushroom shape
- Push to lock, turn clockwise to reset
- Push to lock, unlock by turning the key
- Ø 40mm (Ø1.57") or Ø 60mm (Ø2.36") head
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529
- EN 418
- IEC/EN 60947-5-5

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

cULus LISTED 3MHG   CE   RoHS COMPLIANT

Dimensions and styles

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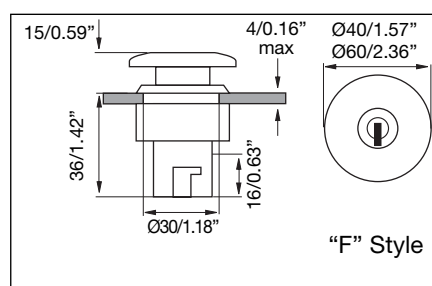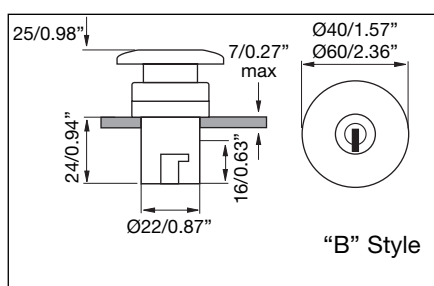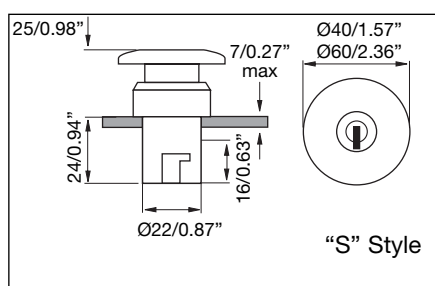**30F** = Ø30mm (Ø1.18") Flush style

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

25/0.98"   7/0.27" max   Ø40/1.57" Ø60/2.36"
24/0.94"   16/0.63"   Ø22/0.87"   "S" Style

25/0.98"   7/0.27" max   Ø40/1.57" Ø60/2.36"
24/0.94"   16/0.63"   Ø22/0.87"   "B" Style

15/0.59"   4/0.16" max   Ø40/1.57" Ø60/2.36"
36/1.42"   16/0.63"   Ø30/1.18"   "F" Style

Specifications are subject to change without notice. Pictures are just an example. For special features and/or custumization, please ask to our sales network. 200808

Panel Actuators and Indicators
Type PA2
Contact Block

CARLO GAVAZZI

- 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

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.

Ordering key

PA 2 110 / 1

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

Approvals

c(UL)us LISTED 3MHG   CE   RoHS COMPLIANT

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**

Terminals

Screw terminals

Max. section sigle-core wire	**2 x 2.5mm² (0.004sq.inch)**
Max. section stranded wire	**2 x 1.5mm² (0.002sq.inch)**
Copper conductor wire	**14 AWG**
Terminal tightening torque	**1.2Nm (10.6in.lb.)**

Technical data

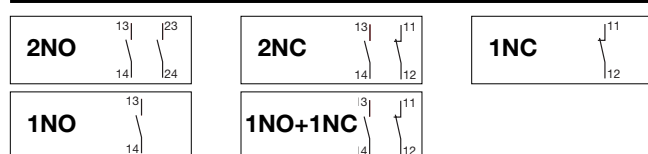|	
Contact resistance	≤50mΩ
Travel	5.8 ± 0.2mm (2.28" ± 0.08")
Rated insulation Voltage U_i	660VAC/DC (acc. to IEC 60947-5-1) 600VAC/DC (acc. to UL508)
Rated imp. withstand voltage U_{imp}	2500VAC 50Hz 1min.
Minimum switching power Min Current Min Voltage	100mA 24V
Switch housing	PC
Contact parts	Cu
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)

Contact characteristics

Contact Rating AC1		10A @ 250VAC	
Contact Rating (acc. to IEC 60947-5-1)		AC15	DC13
	@ 24V	10A	6A
	@ 110V	8A	1A
	@ 220V	6A	0.5A
	@ 380V	4A	-
	@ 500V	2.5A	-
Thermal Contact Rating (acc. to UL 508)		10A (A600) 5A (B600) 2.5A (Q600/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
Q600 (100, 200 slow codes)	@ 250V	0.27A	0.27A
Q300 (010, 020, 110 slow codes)	@ 480V	0.10A	-
	@ 600V	0.10A	-

Wiring diagram

2NO	13 14	23 24

2NC	13 14	11 12

1NC		11 12

1NO	13 14

1NO+1NC	13 (4	11 12
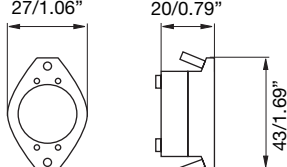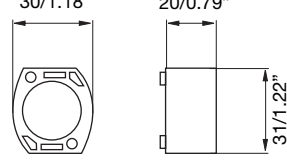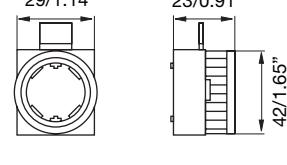
Dimensions mm/inches

24/0.94"   29/1.14"   32/1.26"
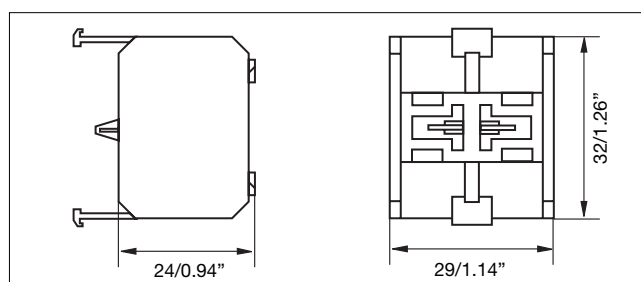
Holders

	Holder type "M"		
	Code	**PB MB M**	27/1.06" 20/0.79" 43/1.69"
	Material	**Zn + PBT**	

	Holder type "P"		
	Code	**PB MB P**	30/1.18" 20/0.79" 31/1.22"
	Material	**PBT**	

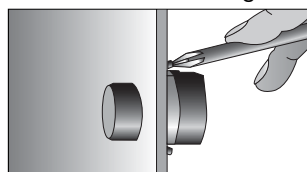|	Holder type "N"		
	Code	**PB MB N**	29/1.14" 23/0.91" 42/1.65"
	Material	**PC**	

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).

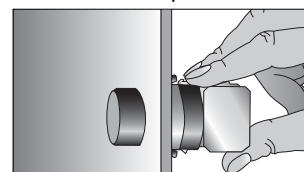Operator   Holder   Contact block   Bezel Push Button with PA2
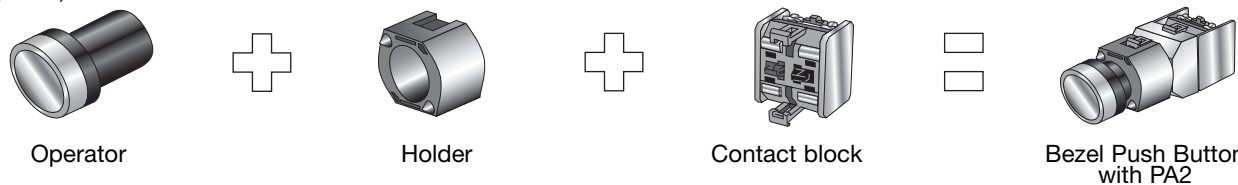
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.
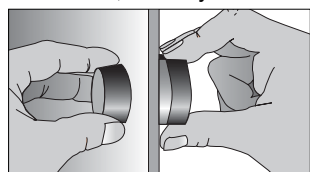
The operator will be inserted into the panel.   The holder will be secured at the back by two screws or nut.   The contact block is snapped on.

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**
Front bezel set Ø30mm (1.18")			
For Ø30mm (1.18") panel hole, to have a thinner effect.	AL		**PA FBZL 30**
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**

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