Panel Actuators and Indicators Type PB Long-handle Selector Switches











- Ø 30mm (Ø1.18") Flush style
- Self-hold or spring return
- Knob colour choice
- Two and three positions
- cULus and CE

Colour

• IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529



Product description

Selector switches 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.

Approvals







Type

LRS = Long-handle selector switch

Ordering key **PB 22S LRS 32 R** Series **Dimension and Style** Type Action

Dimensions and styles

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

30F = Ø30mm (Ø1.18") Flush style

Actions (the arrows indicate the spring return function)

 $3\angle$ = Inree positions \angle * C 33 = Three positions \angle * C 34 = Three positions L C ▼R

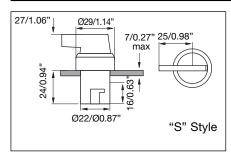
Colours

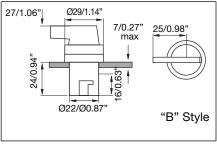
R = Red K = Black Y = Yellow G = Green

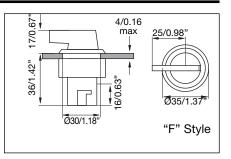
General data

Peripheral of actuator	AL
Actuator	Pa
Mechanical life	≥30 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





- 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

2 = Slow action with forced opening
NC contact)

Approvals







Terminals

Screw terminals

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

Technical data

Contact resistance	≤50m Ω
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:
Switch housing	PC
Switch housing Contact parts	PC Cu
Contact parts	
Contact parts Contact material	Cu
Contact parts Contact material Standard	Cu Hard silver Gold/silver
Contact parts Contact material Standard Optional	Cu Hard silver Gold/silver

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

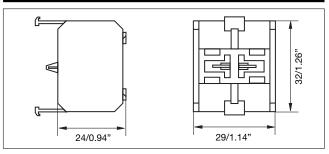
Contact characteristics

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	-
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
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 23 \ \ \ \ \ \ \ \ \ \ \ \ 24	2NC 13 111 12	1NC \(\sqrt{\frac{11}{12}} \)
1NO	13	$100+100 \left(\begin{array}{cc} 3 & 3 & 3 \\ 4 & 12 \end{array} \right)$	

Dimensions mm/inches





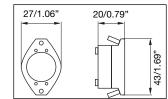
Holders



Holder type "M"

Code

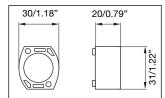
Material



Holder type "P"

Code

Material



Holder type "N"

Code

Material

PB MB N

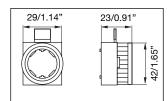
PB MB M

Zn + PBT

PB MB P

PBT

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



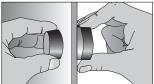


Contact block



Bezel Push Button with PA2

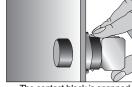
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



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

F	Terminal shield			
	Installed behind the wiring screws of the contact block to avoid electric shock.	PC		PA 2 SHIELD
N	Mounting ring Ø22mm (0.87")			
<u> </u>	Installed on plastic panel to strengthen mounting.	FE		PA MR 22
A	Mounting ring Ø25mm (0.98")			
V	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
	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