Panel Actuators and Indicators Type PB Key Selector Switches







- Ø 22mm (Ø0.87") with Standard key
- Ø 30mm (Ø1.18") with Triangle key
- Two and three positions
- cULus and CE
- IEC/EN 60947-5-1, UL 508

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.

Approvals







Types

KRS = Key selector switch

Ordering key Series Dimension and Style Type Action Key extraction position

Dimensions and styles

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

Actions

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

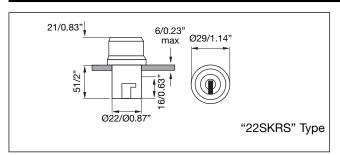
Key extraction position

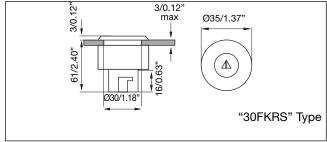
KL = on the left position **KC** = on the center position **KR** = on the right position

General data

Peripheral of actuator	AL
Actuator	Pa
Mechanical life	≥5 x 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

Type —	
· ·	
Number of contacts ———	
O	
Contact code ————	
Options (1 = Snap action —	
Options () - Shap action	

2 = Slow action with forced opening \bigcirc 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 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)

2 NO contacts (DPST) 2 NC contacts (DPST) 1 NC contact (SPST)

Contact code Contact configuration

1 NO contact (SPST)

1 NC + 1 NO contacts (DPST)

Contact code

200 020

010 100

110

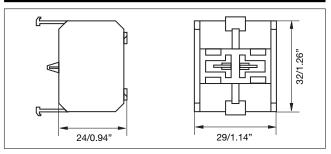
Contact characteristics

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 (B600)
(acc. to UL 508)	2.5A (Q60	00/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

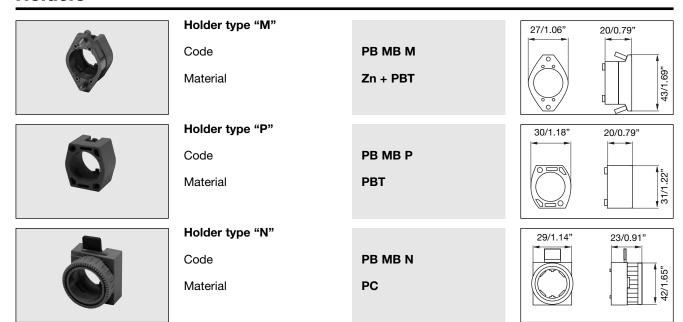
2NO	13 23 \ \ \ \ \ \ \ \ \ \ \ \ 24	2NC 13 111 12	1NC \(\sqrt{\frac{11}{12}} \)
1NO	13	$100+100 \left(\begin{array}{cc} 3 & 3 & 3 \\ 4 & 12 \end{array} \right)$	

Dimensions mm/inches





Holders



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



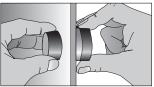
Contact block





Bezel Push Button with PA2

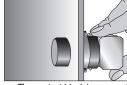
To install it, the only tool needed is a screwdriver. The same used to wiring the contact block can be used to fix the push-button.



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
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