imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Panel Actuators and Indicators Type PB22 I/O Push Buttons



PB 225 IOL 0 RG

PB 22S IO - 0RG



PB 22S IOL - 0RG

Product description

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

Approvals



Types

IO = IO Push Button (ON-OFF type) **IOL** = IO Push Button (ON-OFF type) illuminated¹ ¹ = Light function is obtained by the lamp element pg.19

Colours

RG= Red and Green

BW= Black background White symbol

Symbol

1

UP= Up and down arrows

- Ø 22mm (Ø0.87") Standard style
- Compact design
- ON/OFF function • I red and O green
- Yellow Light made by LED
- Spring return
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC 73, IEC/EN 60529

Ordering key

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

Dimensions and style

22S = Ø22mm (Ø0.87") Standard style

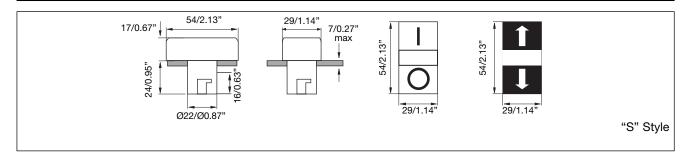
Action

0 = Spring return

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	27/1.06"	20/0.79"
Holder type "P" Code Material	PB MB P PBT	30/1.18"	20/0.79"
Holder type "N" Code Material	PB MB N PC	29/1.14"	23/0.91"

Lamp Element



Approvals

Voltage

 06 = 6VAC/DC
 110 = 110VAC/DC

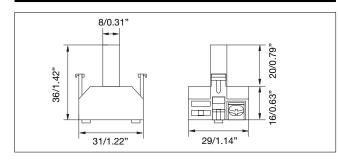
 12 = 12VAC/DC
 220D = 220VDC

 24 = 24VAC/DC
 220A = 220VAC

 48 = 48VAC/DC
 380A = 380VAC

RoHS

Dimensions mm/inches



Ordering key

PALAMP R 220A

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Type — Colour — Voltage

Colours

- $\mathbf{R} = \operatorname{Red}$
- **W** = Clear/White **B** = Blue

 $\mathbf{Y} =$ Yellow $\mathbf{G} =$ 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)

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 terminals Max. section sigle-core wire Max. section stranded wire Copper conductor wire Terminal tightening torque

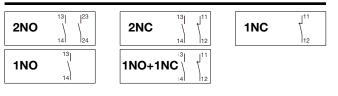
2 x 2.5mm² (0.004sq.inch) 2 x 1.5mm² (0.002sq.inch) 14 AWG 1.2Nm (10.6in.lb.)

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)

Wiring diagram

3



- 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

PA 2 110 / 1

Number of contacts

Contact code

Туре

Options (1 = Snap action

2 = Slow action with forced opening \rightarrow NC contact)

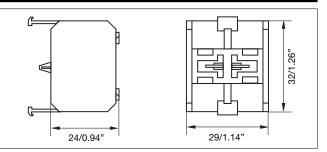
Contact code

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	OVAC	
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	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	-

Dimensions mm/inches



Specifications are subject to change without notice. Pictures are just an example. For special features and/or custumization, please ask to our sales network. 051008

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).











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Operator

Holder

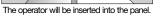
Lamp element

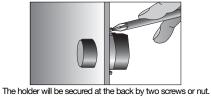
Contact block

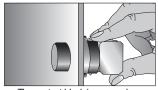
Bezel Push Button with LED and 1NO+1NC

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 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")		
V	When the mounting hole is Ø25mm (0.98"), it should be add to the panel.	FE	PA MR 25
	Panel hole cap Ø22mm (0.87")		
	For blocking up prepared or useless holes on the panels.	ABS	PA PHC 22