# Panel Actuators and Indicators Type PB <br> Flush Round Push Buttons 



- Ø 22mm (Ø0.87") Standard and bezel style
- Self-hold or spring return
- Button colour choice
- Illuminated version made by LED
- cULus and CE
- IEC/EN 60947-5-1, UL 508, IEC/EN 60073, IEC/EN 60529


## Product description

Pushbutton 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 or
devices like lamps, motors, etc.
They should be ordered in parts (operator + holder + contact block) and installed in an enclosure.

## Approvals



## Types

F = Flush round
IF = llluminated ${ }^{1}$ flush round
${ }^{1}=$ Light function is obtained by the lamp element pg. 19

Colours

| $\mathbf{R}=$ Red | $\mathbf{B}=$ Blue |
| :--- | :--- |
| $\mathbf{W}=$ Clear/White | $\mathbf{Y}=$ Yellow |
| $\mathbf{K}=$ Black | $\mathbf{G}=$ Green |

## Ordering key

Series
Dimension and Style
Type


Action
Colour $\qquad$

## Dimensions and styles

22S = Ø22mm ( $(0.87$ ") Standard style
22B = Ø22mm ( $\varnothing 0.87$ ") Bezel style

## Actions

0 = Spring return
1 = Maintained

## General data

| Peripheral of actuator | AL |
| :--- | :--- |
| Actuator | Pa |
| Mechanical life | $\geq 3 \times 10^{6} \mathrm{cycles}$ |
| Operating temperature | -25 to $+70^{\circ} \mathrm{C}\left(-13\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$ |
| Storage temperature | -30 to $+80^{\circ} \mathrm{C}\left(-22\right.$ to $\left.+176^{\circ} \mathrm{F}\right)$ |
| Degree of protection | IP 65 |

Dimensions - Push Buttons mm/inches


## Holders



## Lamp Element



Approvals


Voltage

| $06=6 \mathrm{VAC} / \mathrm{DC}$ | $110=110 \mathrm{VAC} / \mathrm{DC}$ |
| :---: | :---: |
| $12=12 \mathrm{VAC} / \mathrm{DC}$ | 220D $=220 \mathrm{VDC}$ |
| $24=24 V A C / D C$ | 220A $=220 \mathrm{VAC}$ |
| $48=48 \mathrm{VAC} / \mathrm{DC}$ | $380 \mathrm{~A}=380 \mathrm{VAC}$ |

Dimensions mminnthes


Ordering key
PALAMP R 220A
Type
Colour
Voltage

## Colours

| $\mathbf{R}=$ Red | $\mathbf{Y}=$ Yellow |
| :--- | :--- |
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| $\mathbf{B}=$ Blue |  |

## Technical data

| Rated imp. withstand voltage $\mathrm{U}_{\text {imp }}$ | 2500VAC 50 Hz 1 min. |
| :--- | :--- |
| Rated insulation Voltage $\mathrm{U}_{\mathrm{i}}$ | 500 VAC |
| Allowable voltage fluctuation | $\pm 20 \%$ |
| Continuous operating life | $\geq 100.000 \mathrm{~h}$ |
| Ultrahigh brightness | $\geq 100 \mathrm{~cd} / \mathrm{m}^{2}(\geq 9.29 \mathrm{ftc})$ |
| Applying frequency | $50-60 \mathrm{~Hz}$ |
| Current consumption (AC/DC) | $\leq 18 \mathrm{~mA}$ |
| Operating temperature | -25 to $+70^{\circ} \mathrm{C}\left(-13\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$ |
| Storage temperature | -30 to $+80^{\circ} \mathrm{C}\left(-22\right.$ to $\left.+176^{\circ} \mathrm{F}\right)$ |

## Wiring Notes

1) Use $60^{\circ} \mathrm{C}$ or $75^{\circ} \mathrm{C}$ copper (CU) conductor and wire size range 18AWG, stranded or solid.
2) Terminal tightening torque 0.6 Nm ( $5.3 \mathrm{in} . \mathrm{lb}$ )
3) Recommended external fuse - listed or R/C fuses, Supplemental (JDYX, JDYX2) rated 3A mmaximum.

## 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
 double pole single throw (DPST).
Elements can be snapped to each other on the bottom, up to 3 .
Approvals


Technical data

| Contact resistance | $\leq 50 \mathrm{~m} \Omega$ |
| :--- | :--- |
| Travel | $5.8 \pm 0.2 \mathrm{~mm}\left(2.28^{\prime \prime} \pm 0.08^{\prime \prime}\right)$ |
| Rated insulation Voltage $\mathrm{U}_{\mathrm{i}}$ | $660 \mathrm{VAC} / \mathrm{DC}($ (acc. to IEC 60947-5-1) |
| $600 \mathrm{VAC} / \mathrm{DC}($ (acc. to UL508) |  |$|$

## Terminals

## Screw terminals

Max. section sigle-core wire Max. section stranded wire Copper conductor wire

Terminal tightening torque
$2 \times 2.5 \mathrm{~mm}^{2}$ (0.004sq.inch) $2 \times 1.5 \mathrm{~mm}^{2}$ ( 0.002 sq .inch) 14 AWG @ $60^{\circ} \mathrm{C}$ or $75^{\circ} \mathrm{C}$ CU conductor 1.2Nm (10.6in.lb.)

Dimensions mm/inches


## 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).


Operator

Holder


Lamp element


Contact block


Bezel Push Button with LED and $1 \mathrm{NO}+1 \mathrm{NC}$

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.


## Accessories for Panel Actuators



## Sealing cover IP67

Always on the head of operators, Silicon rubber
PA SEAL COV waterproof and dust, IP67.

## Shield

Always on the head of button, prevent Stainless steel PA PB SHIELD strike and mistaking operation.
Protection cover
Always on the head of button, prevent strike PC PA PB COV and mistaking operation. Lockable.

## Terminal shield

Installed behind the wiring screws of the PC
contact block to avoid electric shock.
contact block to avoid electric shock.

## Mounting ring Ø22mm (0.87")

Installed on plastic panel to strengthen FE PA MR 22 mounting.

## Mounting ring Ø25mm (0.98")

When the mounting hole is $\varnothing 25 \mathrm{~mm}$ FE PAMR 25 ( 0.98 "), it should be add to the panel.

## Label frame

Hang it on the push button or pilot light, PC $10 \mathrm{~mm} / 0.39$ " PA LBF 11
for symbol or text explanation. 18mm/0.71" PA LBF 18

## Warning plate

For emergency stop push buttons. ABS $\quad \varnothing 60 \mathrm{~mm} / \varnothing 2.36$ " PA WP 6
Thickness $1.5 \mathrm{~mm} / 0.059$ " $\quad \varnothing 90 \mathrm{~mm} / \varnothing 3.54$ " PA WP 9

## Yellow protection ring

To protect button and to prevent strike or ABS $\quad \varnothing 40 \mathrm{~mm} / \boxed{1.57 " \text { PA YPR } 4}$ mistaking operation.

Rubber Ø60mm/Ø2.36"

PA YPR 6

## Panel hole cap $\mathbf{0} 22 \mathrm{~mm}$ (0.87’)

For blocking up prepared or useless holes ABS
PA PHC 22

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