## CARLOGAVAZZI <br> Antion

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Push Butions,
Selector Switches
\& Pilotilights
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## Push Buttons, Selector Switches and Pilot Lights

CARLO GAVAZZI has developed a new range of push buttons, selector switches and pilot lights which provide a vast array of solutions for your ever increasing application demands. Push buttons are mechanical switches that have their operating head pushed down to actuate an electrical contact to a closed or open position. They are typically used to start and/or stop electric circuits/devices such as lamps, motors, etc.
The main function of a pilot light is to quickly provide a visual indication when an


Space Optimization


User Friendly


Long Term Reliability


Time Saving

## Easy to Choose and Install

It is as easy as $1,2,3$ - just choose the operator, the holder and the contact block. The only tool required is a screwdriver. The same screwdriver is then used to wire the contact block, and adjust the final position of the push button. The pilot light is secured from behind the panel via hand tightening of its plastic mounting nut.

## Three Different Holders

The metal holder was designed to provide maximum durability; the plastic holder in order to have all components in the same material and the plastic nut holder to find the quickest installation solution.

## Different Operator's Design

Each operator is offered in three different styles. Available in plastic, with a metal bezel or for flush mounting - to satisfy the aesthetic tastes and needs.

## LED's High Efficiency and Reliability

The illuminated function, for push buttons and pilot lights, is made by a high-brightness pure color LED. It is a guarantee of improved efficiency and reliability. In fact, the LED technology reaches over 100,000 hours of service life and the power consumption is lower than an incandescent bulb.

## The Terminal Block

The contact rating of 10A @ 250V (AC1) provides the ability for a high operating performance. The terminals have a captive screw system, so it is impossible to lose the screw while attempting to wire.

## More Solutions

Push buttons, selector switches, mushroom head emergency stop push buttons, key switches and pilot lights are available in up to six different colors (red, green, yellow, white, blue and black) and actions (maintained or spring return).

## Approvals

The push buttons, selector switches and pilot devices are approved according to the related European and North American safety standards.


## Push Buttons and Selector Switches

## Market Applications

## Panel Builder



Available in a wide variety of colors, styles, and sizes, the push buttons and pilot lights provide users with the flexibility to meet requirements of most applications. They are designed to fit most space and application requirements.

## Industrial Manufacturing Equipment

Command devices are of great importance on the man-machine interface in the area of industrial applications. They can be mounted in switchboards, control panels, operator's consoles, on conveyors, elevators, etc.

## Emergency Systems

Emergency stop devices are generally connected in the safety circuit of a machine or plant, and are of particular importance for their control system. In case of a fault or accident, the secure function and quick accessibility of an emergency stop device can be crucial for saving lives, limiting the degree of injury to personnel or the extent of damage to a machine.

Extended Push Buttons

## Short-Handle Selector Switches

Long-Handle Selector Switches

## Product Features

## AC and DC Supply Voltage

All illuminated push buttons, short-handle selector switches and pilot lights have a wide range of supply voltages: $6,12,24,48$ or 110 VAC/DC; 220 VDC; 220 or 380 VAC.

## Six Colors

They are available with a various selection of colors: Red, Green, Yellow, White, Blue and Black.

## Actions

The switch function can be maintained or spring return. In a maintained the actuator stays in thrown position (on-off). In a spring return the switch must be held in position and it reverts to its normal position when the actuating force is removed.


Pilot Light with Concentric Rings


High Lens Pilot Light


Low Lens
Pilot Light

Holders Lamp Element and Contact Block

Flashing Buzzer

Buzzer

Teeth Lens Pilot Light


Flashing Pilot Light

Two Color Pilot Light

# Part Number Nomenclature 

## Actions

| 0 = Spring Return | 32*= Three pos. $L^{*} C^{*} R$ |
| :---: | :---: |
| 1 = Maintained | 33*= Three pos. $L^{*} \mathrm{C} R$ |
| 21 = Two pos. L R | $34^{*}=$ Three pos. L $C^{k} R$ |
| 22*= Two pos. $L^{\text {T}} \mathrm{C}$ |  |
| 23* $=$ Two pos. $C^{\text {² }}$ R | * : not for illuminated |
| 31 = Three pos. L C R | * : spring return |



## X Key Extraction Position

$\mathbf{K L}=$ on the left position
$\mathbf{K C}=$ on the center position
$\mathbf{K R}=$ on the right position

| PB 22S F $\triangle \square$ | Standard Flush Push Buttons |
| :---: | :---: |
| PB 22S IF $\triangle \square$ | Standard Flush Illuminated ${ }^{1}$ Push Buttons |
| PB 22B F $\triangle \square$ | Bezel Flush Push Buttons |
| PB 22B IF $\triangle \square$ | Bezel Flush Illuminated ${ }^{1}$ Push Buttons |
| PB 30F F $\triangle \bullet$ | Flush Push Buttons |
| PB 30F IF $\triangle \square$ | Flush llluminated ${ }^{1}$ Push Buttons |
| PB 22SE $\triangle \square$ | Standard Extended Push Buttons |
| PB 22S IE $\triangle \bullet$ | Standard Illuminated ${ }^{1}$ Extended Push Buttons |
| PB 22B E $\triangle \square$ | Bezel Extended Push Buttons |
| PB 22B IE $\triangle \bullet$ | Bezel Illuminated ${ }^{1}$ Extended Push Buttons |
| PB 30F E $\triangle \square$ | Flush Extended Push Buttons |
| PB 30F IE $\triangle \square$ | Flush Illuminated ${ }^{1}$ Extended Push Buttons |
| PB 22S M4 $\triangle \bullet$ | Standard Mushroom $\varnothing 40 \mathrm{~mm}$ Push Buttons |
| PB 22S IM4 $\triangle \bullet$ | Standard Illuminated ${ }^{1}$ Mushroom $\varnothing 40 \mathrm{~mm}$ Push Buttons |
| PB 22B M4 $\triangle \square$ | Bezel Mushroom Ø 00 mm Push Buttons |
| PB 22B IM4 $\triangle \bullet$ | Bezel llluminated ${ }^{1}$ Mushroom $\varnothing 40 \mathrm{~mm}$ Push Buttons |
| PB 30F M4 $\triangle \square$ | Flush Mushroom Ø 00 mm Push Buttons |
| PB 30F IM4 $\triangle \square$ | Flush Illuminated ${ }^{1}$ Mushroom $\oslash 40 \mathrm{~mm}$ Push Buttons |
| PB 22S M6 $\triangle \bullet$ | Standard Mushroom Ø60mm Push Buttons |
| PB 22S IM6 $\triangle \square$ | Standard Illuminated ${ }^{1}$ Mushroom $\varnothing 60 \mathrm{~mm}$ Push Buttons |
| PB 22B M6 $\triangle \square$ | Bezel Mushroom Ø60mm Push Buttons |
| PB 22B IM6 $\triangle \square$ | Bezel llluminated ${ }^{1}$ Mushroom $\varnothing 60 \mathrm{~mm}$ Push Buttons |
| PB 30F M6 $\triangle \bullet$ | Flush Mushroom Ø60mm Push Buttons |
| PB 30F IM6 $\triangle$ - | Flush Illuminated ${ }^{1}$ Mushroom Ø60mm Push Buttons |
| PB 22S EM4 IR | Standard Red Emergency Stop Ø 40 mm Push Buttons |
| PB 22B EM4 IR | Bezel Red Emergency Stop Ø40mm Push Buttons |
| PB 30F EM4 IR | Flush Red Emergency Stop Ø40mm Push Buttons |
| PB 22S EM6 IR | Standard Red Emergency Stop $\quad 60 \mathrm{~mm}$ Push Buttons |
| PB 22B EM6 IR | Bezel Red Emergency Stop Ø60mm Push Buttons |
| PB 30F EM6 IR | Flush Red Emergency Stop Ø60mm Push Buttons |
| PB 22S KM4 IR | Standard Key-reset Emergency Stop Ø 40 mm Push Buttons |
| PB 22B KM4 IR | Bezel Key-reset Emergency Stop Ø 40 mm Push Buttons |


| PB 30F KM4 IR | Flush Key-reset Emergency Stop Ø40mm Push Buttons |
| :---: | :---: |
| PB 22S SRS $\triangle$ | Standard Short-handle Selector Switches |
| PB 22S ISRS $\triangle$ - | Standard Illuminated ${ }^{1}$ Short-handle Selector Switches |
| PB 22B SRS $\triangle \square$ | Bezel Short-handle Selector Switches |
| PB 22B ISRS $\triangle$ - | Bezel Illuminated ${ }^{1}$ Short-handle Selector Switches |
| PB 30F SRS $\triangle$ - | Flush Short-handle Selector Switches |
| PB 22S LRS $\triangle$ - | Standard Long-handle Selector Switches |
| PB 22B LRS $\triangle$ | Bezel Long-handle Selector Switches |
| PB 30F LRS $\triangle$ - | Flush Long-handle Selector Switches |
| PB 22S KRS $\triangle$ X | Standard Key Selector Switches |
| PB 30F KRS $\triangle$ 区 | Flush Triangle-Key Selector Switches |
| PB 22S IO ORG | Standard I/O Rectangular Push Buttons |
| PB 22S IOL ORG | Standard Illuminated ${ }^{1}$ Rectangular I/O Push Buttons |
| PB MB M | Metal Holder |
| PB MB P | Plastic Holder |
| PB MB $N$ | Nut Holder |
| PA LAMP $\quad$ - | Lamp Element with LED |
| PA2 ${ }^{2}$ | Contact Block Snap 010/1 100/1 020/1 200/1 110/1 |
| PA2 | Contact Block Slow 010/2 100/2 020/2 200/2 110/2 |
| PL 22 SHL | Pilot Light High Lens standard size |
| PL 22 CHL $\quad$ - | Pilot Light High Lens compact size |
| PL 22 SRL $\quad$ - | Pilot Light Concentric Lens standard size |
| PL 22 CRL $\quad \bullet$ - | Pilot Light Concentric Lens compact size |
| PL 22 SLL $\quad$ - | Pilot Light Low Lens standard size |
| PL 22 CIL $\quad$ - | Pilot Light Low Lens compact size |
| PL 22 STL $\quad$ - | Pilot Light Teeth Lens standard size |
| PL 22 TL $\quad \square \square$ | Pilot Light Teeth Lens compact size |
| PL 22 SFL - $\quad$ - | Flashing Pilot Light |
| PL 22 STC $\quad$ - | Pilot Light Two Colours |
| PL 22 SFBZ R | Pilot Light Flashing Buzzer |
| PL 22 SBZ K $\quad$ V | Pilot Light Buzzer |

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# The Complete Product Package 



Inductive Proximity Sensors Tripleshield ${ }^{\text {TM }}$ Capacitive Sensors Photoelectric Sensors Inductive Loop Detectors Ultrasonic Sensors Radar Sensors Level Sensors
Limit Switches Magnetic Switches


Solid State Relays Contactors and Overloads Manual Motor Starters Motor Controllers Variable Frequency Drives Electromechanical Relays Pilot Devices
Cam Switches Rotary Disconnects


Energy Management Digital Panel Meters PID Controllers Switching Power Supplies Time Delay Relays Current Monitoring Relays Voltage Monitoring Relays Three Phase Monitoring Relays Current Transformers Enclosures


Control Modules Interlock Switches Magnetic Sensors Light Curtains Stack Lights Mat Systems


Dupline Field \& Installation Bus Building Automation Systems Elevator Systems

## A Global Force in Industrial Automation

CARLO GAVAZZI has a multitude of sales offices spanning North America (not to mention our hundreds of distributors). Therefore, we can be viewed as "your local automation resource" - assisting you every step of the way in finding the proper solution for your various application requirements. Naturally, our job is greatly simplified as we have such a vast range of solutions to offer you via our comprehensive product package. Our worldwide sales offices make us an ideal business partner, especially for manufacturers of exported machinery, as our products are available locally and they are CE marked.

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[^0]:    ${ }^{1}=$ To choose also the lamp element in order to get the lighting function

[^1]:    Your Authorized Distributor:

