

# QUALITY TOUCH!



- **LOW ACTUATOR PROFILE**  
 The external actuator bezel has a low profile and reduced front thickness.



- **CUSTOMISING CAPABILITY**  
 To simplify stock management, the series includes actuators without cap or lens and separate caps and lenses for quick installation or replacement on spring return and push-push types; all these are sold as accessories.

- **HIGH DEGREE OF PROTECTION**  
 The actuators have been tested to guarantee a degree of protection per IEC/EN IP66, IP67, IP69K and UL Type 4X, appropriate for use even in extreme ambient conditions.

7

## ● QUICK AND EASY ACTUATOR INSTALLATION



- Actuator fixing on the mounting surface, through a Ø22mm/Ø0.87" drilled hole, is obtained using its **threaded ring**, easily rotated by hand or by socket spanner/wrench.



- There is an **anti-rotation fastener**, duly sized to avoid actuator rotation on the mounting surface and to give an orientation reference point for users during panel installation and during contact fitting on the actuator.
- This anti-rotation fastener collapses inside the gasket to allow fitting also when drilled holes are round without reference index.
- The sealing gasket for the actuator mounting surface has a gripping action (suction effect) offering additional adhesion properties.

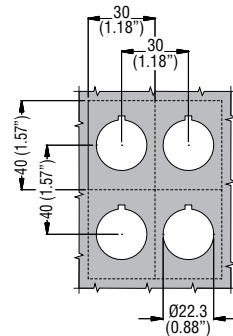


- The mounting adapter and the actuators each have **clearly visible reference** indications making the snap-on fitting between the two easy and intuitive.



- Electrical contacts and LED elements are **snapped onto** the mounting adapter.
- The activation of the middle contacts is standard supplied on all non-illuminated spring return and push-push button or selector switch actuators.

## ● REDUCED DIMENSIONS AND INTERAXIS



- Minimum pitch:
- 30x40mm (1.18x1.57") between drillings for two actuators on a mounting surface
  - 30x55mm (1.18x1.97") between drillings for two double and triple-touch actuators or when spring clamp contacts are used.



- Total depth, from the external mounting surface to the end of the first contact element is just 43mm (1.69").

## ● CONTACT ELEMENTS



- Miniaturised size
- High electric conductivity - 5V 1mA
- Up to 9 contact elements can be installed, 3 rows of 3 elements
- Available versions: Front and base mount with screw terminals while front-mount only with faston and spring-clamp terminals
- Contact operation: double breaking action, direct (positive) action operation and wiping effect.

## ● HIGH-LUMINOSITY LED ELEMENTS



- Miniaturised size
- Long electrical life: 100,000h
- Versions for base mounting and with screw or spring-clamp terminals
- Overvoltage protection
- Withstand vibrations
- Protection against stray currents in wiring
- Flickering phenomenon reduction
- Steady and flashing light versions
- Supply voltages:
  - 12-30VAC/DC
  - 85-140VAC
  - 185-265VAC
- Test elements installed beside and connected with the relative LED element allow checking if all LED elements of the installation are working properly.

- ELEGANT STYLE AND ERGONOMIC DESIGN**  
 All the series elements have an ergonomic design and, at the same time, particular care has been given to minimum detail aesthetics.
- LONG ACTUATOR MECHANICAL LIFE**  
 High performance characteristics assure 5,000,000 cycle mechanical life for spring-return actuators, 1,000,000 for double and triple touch units and 300,000 for emergency-stop types.
- MATERIALS RESISTANT TO OILS, SOLVENTS AND HYDROCARBONS**
- USAGE AT EXTREME TEMPERATURE CONDITIONS**  
 Operation temperature range between -25° and +70°C.
- UL LISTING FOR USA AND CANADA ALONG WITH EAC AND CCC CERTIFICATIONS.**



### DOUBLE AND TRIPLE TOUCH ACTUATORS



- IEC IP66, IP67, IP69K and UL Type 4X degree of protection
- Double touch button actuators, with 2 flush or 1 flush and 1 extended buttons
- Triple touch button actuators with 2 flush and middle extended buttons
- Versions with or without indicator.

### MECHANICAL RESET BUTTONS



- Rod adjustment directly on actuator front (1...4mm / 0.04...0.16")



- Up to 6 contact elements can be mounted.

### EMERGENCY STOP ACTUATORS



- Actuator structure suitable to warrant direct opening operation with mechanical latching for emergency stopping per ISO 13850 and IEC/EN 60947-5-5.
- Auto-monitor contact elements are available with functions to:
  - Constantly control the correct installation (mounting adapter and NC contact with the actuator) and proper operation of the NC contact
  - Open the circuit in the case of malfunctions (e.g. the contact detaches from the mounting adapter due to strong vibrations or shock).



- There is a green line around the actuator body to spot when the emergency stop is at rest or activated.
- Use of **Ronis keys**
- Various accessories available (e.g. yellow E-stop disks, padlockable protection and rubber actuator boots).

### SELECTOR SWITCH ACTUATORS



- Knob design assures excellent grip



- **High visibility** on front or side and actuator inscription shows exact switch position



- Use of **Ronis keys**



- **Activation of the middle contacts is standard supplied** on 2 and 3 position selector switches.

### EXTENSIVE CHOICE OF ACCESSORIES



- Pilot light heads and monoblock LED-integrated pilot lights (IP65).



- Monoblock buzzers (IP40).



- Communication interfaces (IP65) USB and RJ45 types for Ethernet and data transmission in both directions with equipment.

### CONTROL STATIONS



- IEC/EN IP66, IP67 and IP69K and UL Type 1, 2, 3R, 4, 4X and 12K protection degrees
- Empty pushbutton stations with 1 to 6 way option and complete control stations with various mushroom-head stop buttons
- Quick installation and wiring ease with the relative base-mount contact and LED elements, snap in place on the base
- Installation of screw and spring-clamp terminal contact and LED elements also on the internal cover surface.