

# Actuator

51-  
481.036

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## 51-481.036 Actuator

### FRONT

|                       |               |
|-----------------------|---------------|
| Front dimension:      | 18 mm x 18 mm |
| Front form:           | Square        |
| Front bezel colour:   | Black         |
| Front bezel material: | Plastic       |

### MOUNTING

|                |                |
|----------------|----------------|
| Design:        | Raised         |
| Mounting type: | Panel mounting |

### OPERATING-/INDICATION PART

|                    |             |
|--------------------|-------------|
| Lens illumination: | Illuminated |
|--------------------|-------------|

### ELECTRICAL CHARACTERISTICS

|                                          |                                                                                            |
|------------------------------------------|--------------------------------------------------------------------------------------------|
| Switching voltage and switching current: | 100 mA at 42 VAC/VDC                                                                       |
| Contacts:                                | 2 NO                                                                                       |
| Switching rating:                        | 42 V @ 0,1 A                                                                               |
| Electric strength:                       | 2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15 |

### MECHANICAL CHARACTERISTIC

|                   |                                |
|-------------------|--------------------------------|
| Terminal:         | Universal terminal, 2 x 0.5 mm |
| Contact material: | Gold                           |
| Switching action: |                                |

Maintained

**Switching system:** Low-level element

**Switching system:** This low-level switching element was designed for switching low powers in electronic circuits. The mechanism assures reliable switching of loads ranging from a few  $\mu\text{A}/\mu\text{V}$  up to 100 mA/ 42 VAC/DC.  
Single-break momentary contact, as normally open or normally closed with 4 independent points of contact. 2 momentary contacts per switching element; combination of normally open and normally closed is possible.  
Special features are the long life, extremely short rebound time and stable contact resistance.

**Mechanical lifetime:** 1 Mil. cycles of operation

**Operating force:** 1,8 ... 3,5 N

**Operating Travel:** 3 mm

**Tightening torque:** Fixing nut max. 0.5 Nm

**Terminal details 1:** The universal terminals permit these units to be mounted on printed circuit boards (PCB). These terminals can also be used as soldering or plug-in terminals.  
For these terminals we can also supply a plug-in base which, when soldered on to the board, enables the switch to be plugged in.

**Weight:** 0.007 kg

## AMBIENT CONDITION

**IP front protection:** IP65, according to DIN EN 60529

**Operating temperature:** – 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely

**Shock resistance:** 15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)

## CERTIFICATE

**REACH:** REACH compliant

**RoHS:** RoHS compliant

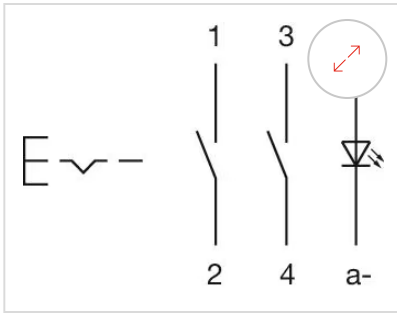
## OTHER

**Short Description:** Actuator, 18 mm x 18 mm, Illuminated, Square, Black, Plastic, 2 NO, Maintained, Universal terminal, 2 x 0.5 mm, IP65, according to DIN EN 60529

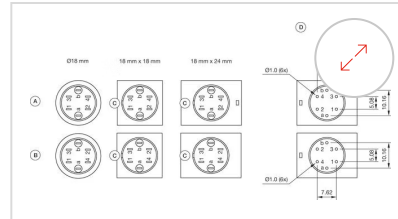
**Internal size:** 15,3 mm x 15,3 mm

**Housing colour:** Black

**Wiring diagrams:**

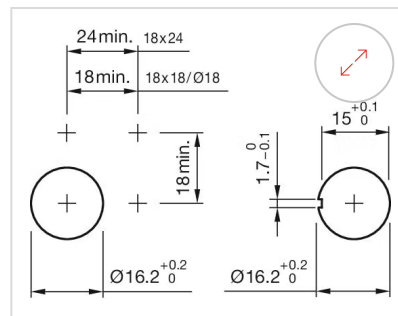


### Component layouts:

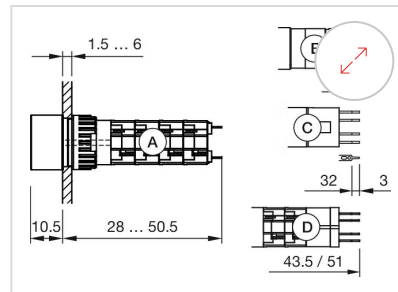


- A = Universal terminal (rear side)
- B = Plug-in terminal (rear side)
- C = Anti twist device
- D = Drilling plan

### Mounting cut-outs:



### Dimension drawings:



- A = Solder terminal
- B = Plug-in terminal 2.8 mm x 0.5 mm
- C = Universal terminal 2.0 mm x 0.5 mm
- D = Universal-Solder terminal