

# Actuator

51-  
712.0292

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## 51-712.0292

### Actuator

#### FRONT

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

#### MOUNTING

|         |        |
|---------|--------|
| Design: | raised |
|---------|--------|

#### OPERATING-/INDICATION PART

|                    |              |
|--------------------|--------------|
| Lens illumination: | illuminative |
|--------------------|--------------|

#### ELECTRICAL CHARACTERISTICS

|                                          |                                                                                                                                                                                                                                                                                                |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switching voltage and switching current: | 250 VAC, 5 A (ohmic)<br>250 VAC, 2 A (inductive, $\cos(\phi) = 0.7$ )<br>125 VAC, 3 A (inductive, $\cos(\phi) = 0.7$ )<br>220 VDC, 0.1 A (inductive, L:R = 30 ms)<br>110 VDC, 0.2 A (inductive, L:R = 30 ms)<br>60 VDC, 0.7 A (inductive, L:R = 30 ms)<br>24 VDC, 2 A (inductive, L:R = 30 ms) |
| Standards:                               | According to EN/IEC 61058-1                                                                                                                                                                                                                                                                    |
| Protection class:                        | II                                                                                                                                                                                                                                                                                             |
| Contacts:                                | 2 NC / 2 NO                                                                                                                                                                                                                                                                                    |
| Electric strength:                       | 2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15                                                                                                                                                                                                     |
| Thermal current Ith:                     | 5 A, according to EN / IEC 60947-5-1<br>The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.                                                                                                                                        |
| Rated Operational Voltage Ue:            | 250 VAC/DC according to EN IEC 60947-1                                                                                                                                                                                                                                                         |

**Electrical lifetime:** 50 000 cycles of operation

## MECHANICAL CHARACTERISTIC

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

**Terminal:** Universal soldering terminal

**Switching system:** Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.

**Mechanical lifetime:** 2 Mio. cycles of operation

**Switching action:** Momentary

**Contact material:** Gold

**Weight:** 0.01 kg

**Switching system:** Snap-action switching element

**Operating Travel:** 3 mm

**Wire cross section:** Snap-action switching element with tinned soldering terminals at the sides  
Max. wire diameter 2 wires à 1.2 mm  
Max. wire cross-section of stranded cable 1 x 1 mm<sup>2</sup>

**Operating force:** 1,8 ... 6 N, depending on the number of switching elements

## AMBIENT CONDITION

**Vibration resistance:** 10 g at 10 Hz...1500 Hz, amplitude 0.75 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6

**Climate resistance:** Standard condition, as per DIN EN 60068-2-30  
Changing condition, as per DIN EN 60068-2-14

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

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

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

**Storage temperature:** – 40 °C ... + 85 °C

## CERTIFICATE

**Conformities:** CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)

**Approbations:** CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL

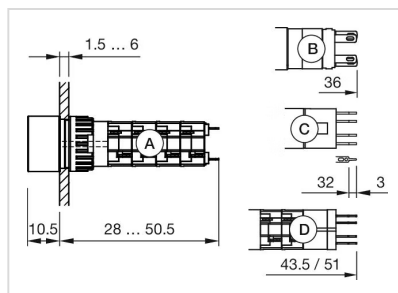
## OTHER

**Housing colour:** Black

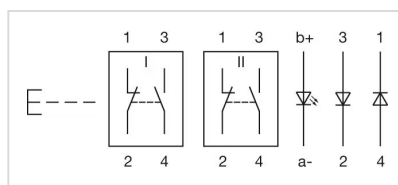
**Internal size:** 15,3 mm x 15,3 mm

**Short Description:** Actuator, 18 mm x 18 mm, illuminative, Black, Plastic, 2 NC / 2 NO, Momentary, Universal soldering terminal, IP65, according to DIN EN 60529

**Dimension drawings:**



**Wiring diagrams:**



**Mounting cut-outs:**

