

# Actuator

31-  
714.0292

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## 31-714.0292 Actuator

### FRONT

Front bezel material:	Plastic
Front dimension:	24 mm x 18 mm
Front form:	rectangular
Front bezel colour:	Black

### MOUNTING

Mounting cut-out:	Ø 16 mm
Design:	raised

### OPERATING-/INDICATION PART

Lens illumination:	illuminative
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### ELECTRICAL CHARACTERISTICS

Electric strength:	2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth
Standards:	According to EN/IEC 61058-1
Electrical lifetime:	50 000 cycles of operation
Protection class:	II
Contacts:	1 NC / 1 NO
Switching voltage and switching current:	250 VAC, 5 A (ohmic) 250 VAC, 3 A (Soldering terminal) 250 VAC, 2 A (inductive, $\cos(\phi) = 0.7$ ) 125 VAC, 3 A (inductive, $\cos(\phi) = 0.7$ ) 220 VDC, 0.1 A (inductive, L:R = 30 ms) 60 VDC, 0.7 A (inductive, L:R = 30 ms) 24 VDC, 2 A (inductive, L:R = 30 ms)

**Rated Operational Voltage Ue:** 250 VAC/VDC

**Thermal current Ith:** 5 A

## MECHANICAL CHARACTERISTIC

**Switching action:** Maintained

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

**Wire cross section:** Max. wire cross-section 1 wire with 1.5 mm  
Max. wire cross-section of stranded cable 2 of 0.75 mm<sup>2</sup> or 1 x 1.0 mm<sup>2</sup>

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

**Weight:** 0.008 kg

**Switching system:** Self-cleaning, double-break snap action switching system (contact opening width 2 mm x 0.5 mm), 1 normally closed and 1 normally open contact per element.

**Contact material:** Gold

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

**Operating force:** 2 N ... 5,5 N, depending on the number of switching elements

**Operating Travel:** ca. 3 mm

**Terminal:** Universal soldering terminal

## AMBIENT CONDITION

**Vibration resistance:** 10 g at 10 Hz...2000 Hz, amplitude 1.5 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6

**IP Protection:** IP40 front side, IP67 with front protective cap

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

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

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

**Climate resistance:** Standard condition according to IEC 60068-2-3  
Changing condition according to IEC 60068-2-14

## CERTIFICATE

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

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

## OTHER

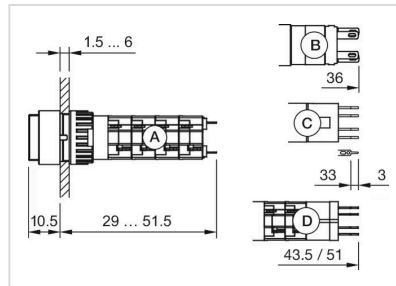
**Housing colour:** Black

**Internal size:** 21,5 mm x 15,3 mm

**Short Description:** Actuator, Ø 16 mm, 24 mm x 18 mm, illuminative, rectangular, Black, Plastic, 1 NC / 1 NO, Maintained, Universal soldering terminal

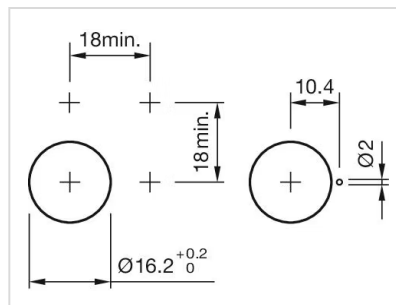
**max. number of switching elements:** 1

**Dimension drawings:**

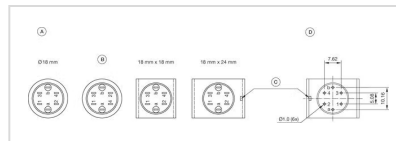


A = Solder terminal  
B = Plug-in terminal 2.8 mm x 0.5 mm  
C = Universal terminal 2.0 mm x 0.5 mm  
D = Universal-Solder terminal

**Mounting cut-outs:**



**Component layouts:**



A = Terminals (rear side)  
B = Diode block  
C = Anti twist device only 18 mm x 24 mm  
D = Drilling plan (component side)

**Wiring diagrams:**

