

# Actuator

31-  
709.0292

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## 31-709.0292

### Actuator

#### FRONT

Front form:	square
Front bezel material:	Plastic
Front dimension:	18 mm x 18 mm
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

Thermal current I <sub>th</sub> :	5 A
Standards:	According to EN/IEC 61058-1
Protection class:	II
Rated Operational Voltage U <sub>e</sub> :	250 VAC/VDC
Electric strength:	2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth
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)

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

**Contacts:** 1 NC / 1 NO

## MECHANICAL CHARACTERISTIC

**Weight:** 0.008 kg

**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

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

**Contact material:** Gold

**Terminal:** Universal soldering terminal

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

**Switching action:** Momentary

**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.

## AMBIENT CONDITION

**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 IEC 60512-4-3, IEC 60068-2-27 (Single impacts, semi-sinusoidal)

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

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

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

**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

## 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

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

**Short Description:**

**Housing colour:** Black

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

[illegible]

The diagram shows a four-terminal network. On the left, there is a dependent current source represented by a vertical line with a horizontal arrow pointing to the right, labeled with the letter 'E'. This source is connected to a central rectangular box. Inside the box, there are four terminals labeled 1, 3, 2, and 4. Terminal 1 is at the top left, terminal 3 is at the top right, terminal 2 is at the bottom left, and terminal 4 is at the bottom right. Inside the box, there is a dependent current source pointing downwards, labeled with the letter 'E' and a dashed line. To the right of the box, there are two vertical lines representing terminals. The left vertical line is labeled 'b+' at the top and 'a-' at the bottom, and it contains a dependent current source pointing downwards, labeled with the letter 'E' and a dashed line. The right vertical line is labeled '3' at the top and '2' at the bottom, and it contains a dependent current source pointing downwards, labeled with the letter 'E' and a dashed line.