Your Expert Partner for **Human Machine Interfaces**

# Actuator

31-
152.0252



https://www.eao.com/component/31-152.0252/en/...

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# 31-152.0252
# Actuator

## PRODUCT RANGE

| | |
|---|---|
| **Product Status:** | Phase-out |
| **successor product:** | https://www.eao.com/component/51-152.0252/en/actuator |

## FRONT

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

## MOUNTING

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|---|---|
| **Design:** | Raised |
| **Mounting cut-out:** | Ø 16 mm |
| **Mounting type:** | Panel mounting |

## OPERATING-/INDICATION PART

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

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| **Switching voltage and switching current:** | 250 VAC, 5 A (ohmic)<br>250 VAC, 3 A (Soldering terminal)<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>60 VDC, 0.7 A (inductive, L:R = 30 ms)<br>24 VDC, 2 A (inductive, L:R = 30 ms) |
| **Contacts:** | |

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2 NC / 2 NO

| | |
|---|---|
| **Rated Operational Voltage Ue:** | 250 VAC/VDC |
| **Switching rating:** | 250 V @ 3 A |
| **Electrical lifetime:** | 50 000 cycles of operation |
| **Electric strength:** | 2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth |
| **Protection class:** | II |
| **Standards:** | According to EN/IEC 61058-1 |
| **Thermal current Ith:** | 3 A |

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| **Terminal:** | Soldering terminal |
| **Contact material:** | Gold |
| **Switching action:** | Momentary |
| **Switching system:** | Snap-action switching element |
| **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. |
| **Mechanical lifetime:** | 2 Mil. cycles of operation |
| **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 |
| **Wire cross section:** | Snap-action switching element with tinned soldering terminals at the sides<br>Max. wire diameter 2 wires à 1.2 mm<br>Max. wire cross-section of stranded cable 1 x 1 $mm^2$ |
| **Weight:** | 0.007 kg |

## AMBIENT CONDITION

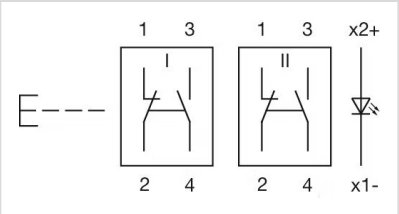
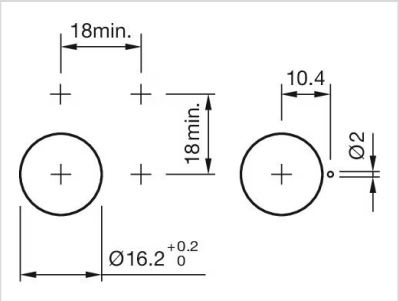
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| | |
|---|---|
| **IP Protection:** | IP40 front side, IP67 with front protective cap |
| **Operating temperature:** | – 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely |
| **Storage temperature:** | – 40 °C ... + 85 °C |
| **Shock resistance:** | 15 g for 11 ms, as per IEC 60512-4-3, IEC 60068-2-27 (Single impacts, semi-sinusoidal) |
| **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 |
| **Climate resistance:** | Standard condition according to IEC 60068-2-3<br>Changing condition according to IEC 60068-2-14 |

## CERTIFICATE

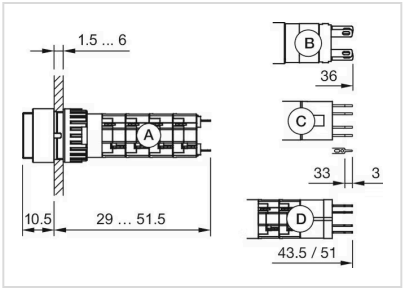
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|---|---|
| **Approbations:** | CB (IEC 61058-1), CSA, DNV, ENEC (EN 61058-1), UL, VDE |
| **Conformities:** | CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD) |
| **REACH:** | REACH compliant |
| **RoHS:** | RoHS compliant |

## OTHER

| | |
|---|---|
| **Short Description:** | Actuator, Ø 16 mm, 18 mm x 18 mm, Illuminated, Square, Black, Plastic, 2 NC / 2 NO, Momentary, Soldering terminal |
| **Internal size:** | 15,3 mm x 15,3 mm |
| **Housing colour:** | Black |
| **max. number of switching elements:** | 2 |
| **Wiring diagrams:** |  |
| **Mounting cut-outs:** |  |

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**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

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