

# Actuator

31-  
134.0252

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## 31-134.0252 Actuator

### FRONT

<b>Front bezel colour:</b>	Black
<b>Front dimension:</b>	Ø 18 mm
<b>Front bezel material:</b>	Plastic
<b>Front form:</b>	round

### MOUNTING

<b>Mounting cut-out:</b>	Ø 16 mm
<b>Design:</b>	raised

### OPERATING-/INDICATION PART

<b>Lens illumination:</b>	illuminative
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### ELECTRICAL CHARACTERISTICS

<b>Standards:</b>	According to EN/IEC 61058-1
<b>Switching voltage and switching current:</b>	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)
<b>Contacts:</b>	4 NC / 4 NO
<b>Rated Operational Voltage <math>U_e</math>:</b>	250 VAC/VDC
<b>Electric strength:</b>	2500 VAC, 50 Hz, 1 minute, as per IEC 60512-2-11 between all terminals and earth
<b>Thermal current <math>I_{th}</math>:</b>	3 A

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

**Protection class:** II

### MECHANICAL CHARACTERISTIC

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

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

**Switching action:** Momentary

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

**Weight:** 0.012 kg

**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.

**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>

**Contact material:** Gold

**Operating Travel:** ca. 3 mm

**Terminal:** Soldering terminal

### AMBIENT CONDITION

**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

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

**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, EAC, ENEC (EN 61058-1), UL, VDE

### OTHER

**Short Description:**

Actuator, Ø 16 mm, Ø 18 mm, illuminative, round, Black, Plastic, 4 NC / 4 NO, Momentary, Soldering terminal

**Housing colour:**

Black

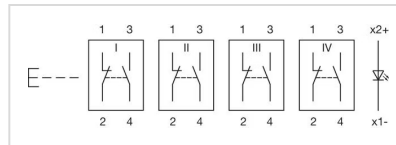
**Internal size:**

Ø 15,8 mm

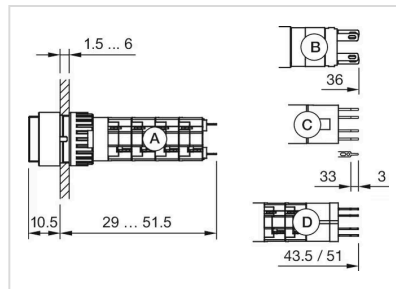
**max. number of switching elements:**

4

**Wiring diagrams:**



**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:**

