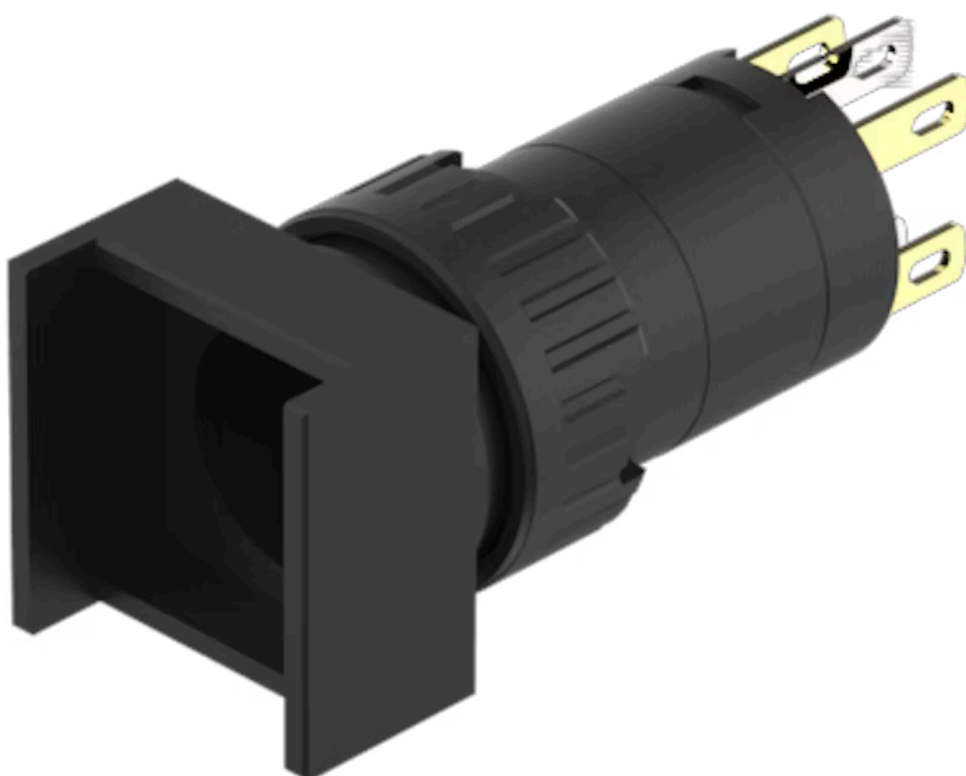


# Actuator

51-  
281.022

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Your product:

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## 51-281.022

### Actuator

#### FRONT

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

#### MOUNTING

Design:	raised
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#### OPERATING-/INDICATION PART

Lens illumination:	illuminative
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#### ELECTRICAL CHARACTERISTICS

Standards:	According to EN/IEC 61058-1
Contacts:	1 NC / 1 NO
Electrical lifetime:	50 000 cycles of operation
Thermal current I <sub>th</sub> :	5 A, according to EN / IEC 60947-5-1 The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.
Rated Operational Voltage U <sub>e</sub> :	250 VAC/DC according to EN IEC 60947-1
Electric strength:	2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15
Protection class:	II
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)  
110 VDC, 0.2 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)

## MECHANICAL CHARACTERISTIC

<b>Weight:</b>	0.006 kg
<b>Terminal:</b>	Plug-in terminal, 2.8 x 0.5 mm
<b>Wire cross section:</b>	Snap-action switching element with axial soldering terminals, which can also be used as plug-in terminals 2.8 x 0.5mm Max. wire diameter 2 wires of 1 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>
<b>Tightening torque:</b>	Fixing nut max. 0.5 Nm
<b>Operating force:</b>	4 N ... 6 N
<b>Contact material:</b>	Gold
<b>Switching action:</b>	Maintained
<b>Switching system:</b>	Snap-action switching element
<b>Mechanical lifetime:</b>	1 Mio. cycles of operation
<b>Operating Travel:</b>	3 mm
<b>Switching system:</b>	Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.

## AMBIENT CONDITION

<b>Climate resistance:</b>	Standard condition, as per DIN EN 60068-2-30 Changing condition, as per DIN EN 60068-2-14
<b>IP front protection:</b>	IP65, according to DIN EN 60529
<b>Storage temperature:</b>	- 40 °C ... + 85 °C
<b>Operating temperature:</b>	- 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely
<b>Shock resistance:</b>	15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)
<b>Vibration resistance:</b>	10 g at 10 Hz...1500 Hz, amplitude 0.75 mm (Sinusoidal), according to DIN EN 60512-4-4, DIN EN 60068-2-6

## CERTIFICATE

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

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

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

1

**Internal size:**

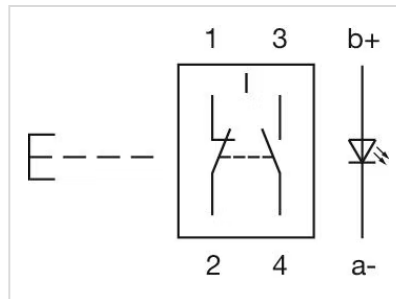
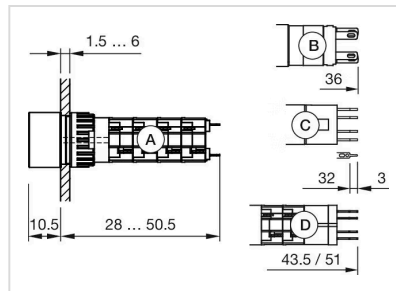
15,3 mm x 15,3 mm

**Short Description:**

Actuator, 18 mm x 18 mm, illuminative, Black, Plastic, 1 NC / 1 NO, Maintained, Plug-in terminal, 2.8 x 0.5 mm, IP65, according to DIN EN 60529

**Housing colour:**

Black

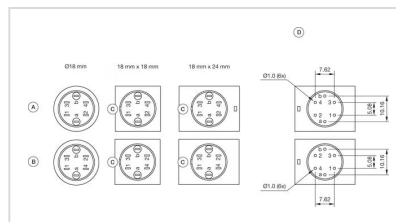
**Wiring diagrams:****Dimension drawings:**

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

**Component layouts:**

A = Universal terminal (rear side)

B = Plug-in terminal (rear side)

C = Anti twist device

D = Drilling plan

**Mounting cut-outs:**

