

# Actuator

51-255.022D Distribution by DigiKey









## 51-255.022D Actuator

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Front dimension: 18 mm x 18 mm

Front form: Square

**MOUNTING** 

Design: Raised

Mounting type: Panel mounting

#### **ELECTRICAL CHARACTERISTICS**

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)

Contacts: 1 NC / 1 NO

**Rated Operational Voltage Ue:** 250 VAC/DC according to EN IEC 60947-1

Switching rating:  $250 \lor @ 5 A$ 

Electric strength: 2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-

1, part 15

Protection class:

**Standards:** According to EN/IEC 61058-1

**Thermal current Ith:** 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.

**Terminal:** Plug-in terminal, 2.8 x 0.5 mm

Contact material: Gold

Switching action: Rest (a) - Maintained

Switching system: Snap-action switching element

Switching system: Self-cleaning, double-break snap action switching system, 1 normally closed and 1

normally open contact per element.

**Switching positions:** 2 positions

**Switching angle:** 90° right

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

**Operating force:** 1,8 ... 6 N, depending on the number of switching elements

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

Wire cross section: 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>

Weight: 0.02 kg

#### **AMBIENT CONDITION**

**IP front protection:** IP65, according to DIN EN 60529

**Operating temperature:**  $-25 \, ^{\circ}\text{C} \, ... \, + 55 \, ^{\circ}\text{C}$ 

Storage temperature:  $-40 \, ^{\circ}\text{C} \dots + 85 \, ^{\circ}\text{C}$ 

**Shock resistance:** 15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts,

semi-sinusoidal)

Vibration resistance: 10 g at 10 Hz...1500 Hz, amplitude 0.75 mm (Sinusoidal), according to DIN EN

60512-4-4, DIN EN 60068-2-6

Climate resistance: Standard condition, as per DIN EN 60068-2-30

Changing condition, as per DIN EN 60068-2-14

#### **CERTIFICATE**

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

Ce, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)

**REACH:** REACH compliant

RoHS: RoHS compliant

#### **OTHER**

#### **Short Description:**

Actuator, 18 mm x 18 mm, Square, 1 NC / 1 NO, Rest (a) - Maintained, Plugin terminal, 2.8 x 0.5 mm, IP65, according to DIN EN 60529

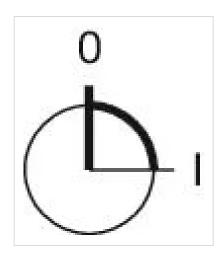
Housing colour: Black

Hints: Standard lock: DOM 311

max. number of switching elements:

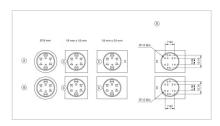
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Switching positions:



Wiring diagrams:

Component layouts:

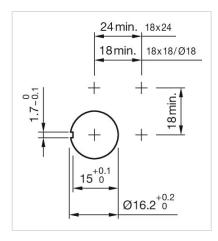


A = Universal terminal (rear side)

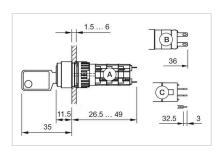
B = Plug-in terminal (rear side) C = Anti twist device

D = Drilling plan

Mounting cut-outs:



### 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