

Actuator

51-284.0252 Distribution by DigiKey









51-284.0252 Actuator

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Front bezel colour: Black

Front bezel material: Plastic

Front dimension: 18 mm x 18 mm

MOUNTING

Design: raised

OPERATING-/INDICATION PART

Lens illumination: illuminative

ELECTRICAL CHARACTERISTICS

Protection class:

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

Switching voltage and switching

250 VAC, 5 A (ohmic)

current:

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)

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

1, part 15

Electrical lifetime: 50 000 cycles of operation

Thermal current Ith:The maximum current in continuous operation and at ambient temperature not

exceeding the quoted maximum values.

3 A

Standards: According to EN/IEC 61058-1

Contacts: 4 NC / 4 NO

MECHANICAL CHARATERISTIC

Terminal: Soldering terminal

Weight: 0.012 kg

Tightening torque: Fixing nut max. 0.5 Nm

Switching system: Snap-action switching element

Mechanical lifetime: 1 Mio. cycles of operation

Contact material: Gold

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

normally open contact per element.

Wire cross section: Snap-action switching element with tinned soldering terminals at the sides

Max. wire diameter 2 wires à 1.2 mm

Max. wire cross-section of stranded cable 1 x 1 mm²

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

Operating Travel: 3 mm

Switching action: Maintained

AMBIENT CONDITION

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

IP front protection: IP65, according to DIN EN 60529

Operating temperature: - 25 °C, mounted as a block, make sure the heat can escape freely

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

semi-sinusoidal)

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

CERTIFICATE

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

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

OTHER

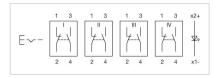
Short Description: Actuator, 18 mm x 18 mm, illuminative, Black, Plastic, 4 NC / 4 NO, Maintained,

Soldering terminal, IP65, according to DIN EN 60529

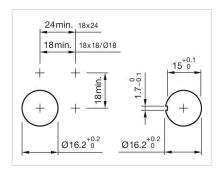
Housing colour: Black

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

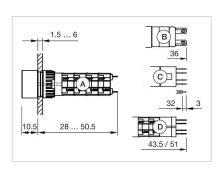
Wiring diagrams:



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

D = Universal-Solder terminal