

Actuator

51-271.022











51-271.022 Actuator

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Front dimension: Ø 18 mm

Front form: Round

Front bezel colour: Black

Front bezel material: Plastic

MOUNTING

Mounting type: Panel mounting

OPERATING-/INDICATION PART

Lens illumination: Illuminated

ELECTRICAL CHARACTERISTICS

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)

Contacts: 1 NC / 1 NO

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

Switching rating: 250 V @ 5 A

Electrical lifetime: 50 000 cycles of operation

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.

MECHANICAL CHARACTERISTICS

Terminal: Plug-in terminal, 2.8 x 0.5 mm

Contact material: Gold

Switching action: 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.

Mechanical lifetime: 1 Mil. cycles of operation

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

Operating Travel: 3 mm

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 mm² or 1 x 1.0 mm²

Weight: 0.008 kg

AMBIENT CONDITION

IP front protection: IP65, according to DIN EN 60529

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

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

Conformities: CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)

REACH: REACH compliant

RoHS:

RoHS compliant

OTHER

Short Description:

Actuator, Ø 18 mm, Illuminated, Round, Black, Plastic, 1 NC / 1 NO, Maintained,

Plug-in terminal, 2.8 x 0.5 mm, IP65, according to DIN EN 60529

Internal size: Ø 15,8 mm

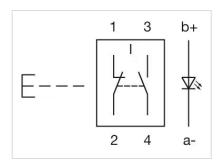
Housing colour: Black

max. number of switching

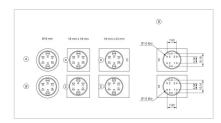
elements:

1

Wiring diagrams:



Component layouts:



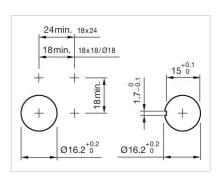
A = Universal terminal (rear side)

B = Plug-in terminal (rear side)

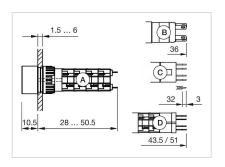
C = Anti twist device

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
D = Universal-Solder terminal