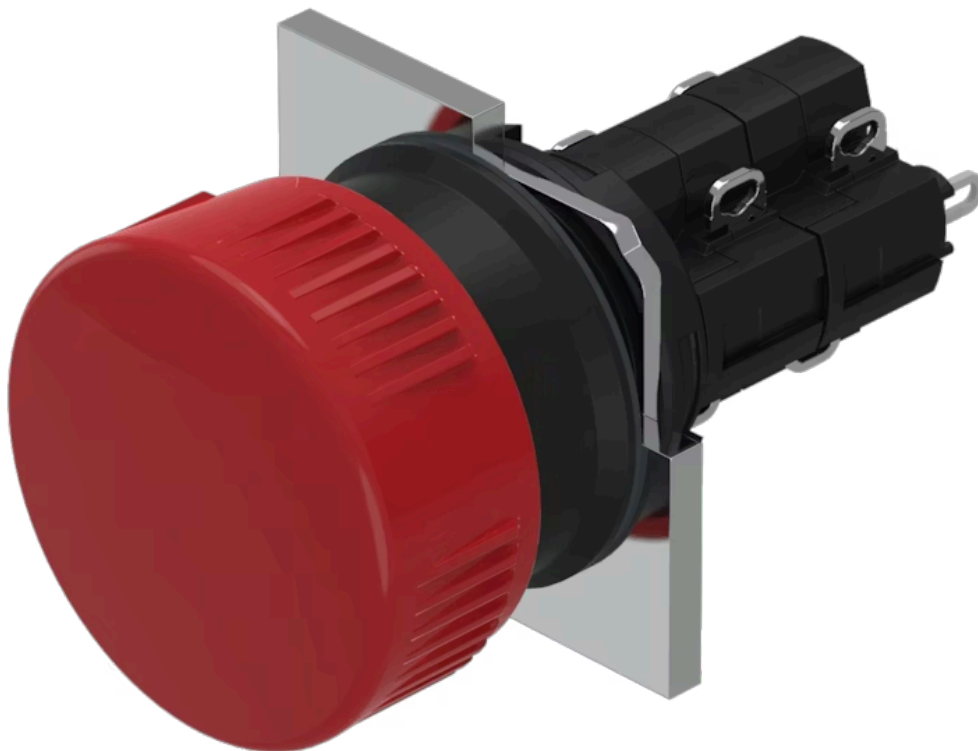


Actuator

51-
159.0252

Distribution by
DigiKey

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<https://digikey.eao.com/component/51-159.0252...>

Your product:



51-159.0252 Actuator

FRONT

| | |
|-----------------------|-----------|
| Front dimension: | Ø 24,5 mm |
| Front form: | Round |
| Front bezel colour: | Black |
| Front bezel material: | Plastic |

MOUNTING

| | |
|----------------|----------------|
| Design: | Raised |
| Mounting type: | Panel mounting |

OPERATING-/INDICATION PART

| | |
|--------------------|-----------------|
| Lens colour: | Red |
| Lens material: | Plastic |
| Lens illumination: | Non illuminated |
| Lens shape: | Mushroom-head |
| Lens optics: | opaque |

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: | 2 NC / 2 NO |

| | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Rated Operational Voltage Ue: | 250 VAC/DC according to EN IEC 60947-1 |
| Switching rating: | 250 V @ 3 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: | II |
| Standards: | According to EN/IEC 61058-1 |
| Thermal current Ith: | The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values. 3 A |

MECHANICAL CHARACTERISTICS

| | |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminal: | Soldering terminal |
| Contact material: | Gold |
| Switching action: | Momentary |
| 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: | 2 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 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 mm ² |
| Weight: | 0.015 kg |

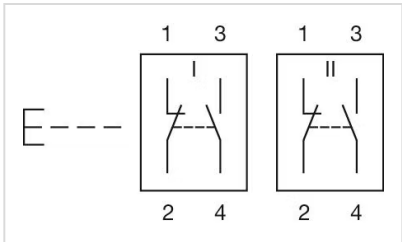
AMBIENT CONDITION

| | |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| IP front protection: | IP65, according to DIN EN 60529 |
| Operating temperature: | – 25 °C ... + 55 °C |
| Storage temperature: | – 40 °C ... + 85 °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 |

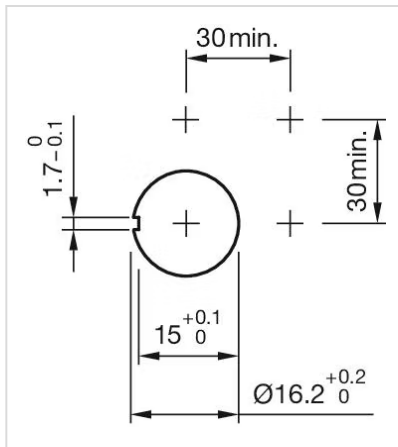
CERTIFICATE

| | |
|----------------------|-----------------------------------------------------------------------------|
| Approbations: | CB (IEC 61058-1), CQC, CSA, DNV, EAC, ENEC (EN 61058-1), UL, VDE |
| Conformities: | CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD) |
| REACH: | REACH compliant |
| RoHS: | RoHS compliant |

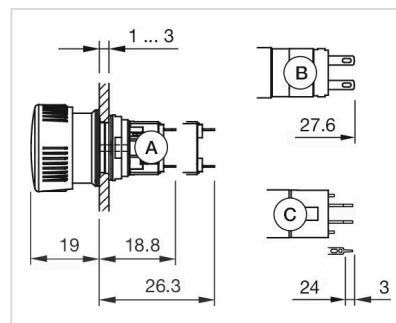
OTHER

| | |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Short Description: | Actuator, Ø 24,5 mm, Mushroom-head, Non illuminated, Red, Plastic, opaque, Round, Black, Plastic, 2 NC / 2 NO, Momentary, Soldering terminal, IP65, according to DIN EN 60529 |
| Housing colour: | Black |
| Hints: | If the anti-twist ring is not used the panel thickness increases to 4 mm |
| max. number of switching elements: | 2 |
| 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