Your Expert Partner for **Human Machine Interfaces**

# Actuator

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51-
195.025D2



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Your product:



# 51-195.025D2
# Actuator

## FRONT

| | |
|---|---|
| **Front dimension:** | 24 mm x 18 mm |
| **Front form:** | Rectangular |

## MOUNTING

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

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| **Switching voltage and switching current:** | 250 VAC, 5 A (ohmic)<br>250 VAC, 3 A (Soldering terminal)<br>250 VAC, 2 A (inductive, cos(phi) = 0.7)<br>125 VAC, 3 A (inductive, cos(phi) = 0.7)<br>220 VDC, 0.1 A (inductive, L:R = 30 ms)<br>110 VDC, 0.2 A (inductive, L:R = 30 ms)<br>60 VDC, 0.7 A (inductive, L:R = 30 ms)<br>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:** | II |
| **Standards:** | According to EN/IEC 61058-1 |
| **Thermal current Ith:** | 5 A, according to EN / IEC 60947-5-1<br>The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values. |

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| **Terminal:** | Soldering terminal |
| **Contact material:** | Gold |
| **Switching action:** | Rest (a) - Maintained (a) |
| **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 tinned soldering terminals at the sides<br>Max. wire diameter 2 wires à 1.2 mm<br>Max. wire cross-section of stranded cable 1 x 1 $mm^2$ |
| **Weight:** | 0.018 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<br>Changing condition, as per DIN EN 60068-2-14 |

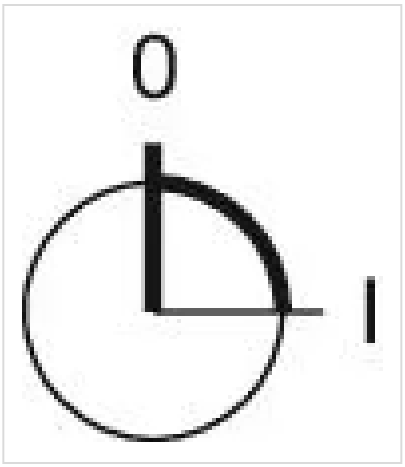
## CERTIFICATE

| | |
|---|---|
| **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 |

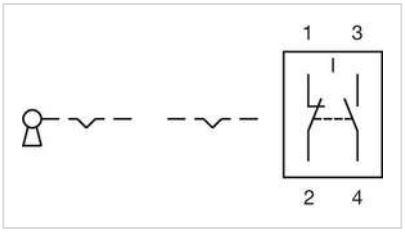
## OTHER

| | |
|---|---|
| **Short Description:** | Actuator, 24 mm x 18 mm, Rectangular, 1 NC / 1 NO, Rest (a) - Maintained (a), Soldering terminal, IP65, according to DIN EN 60529 |
| **Housing colour:** | Black |
| **Hints:** | Standard lock: DOM 311 |
| **max. number of switching elements:** | 4 |

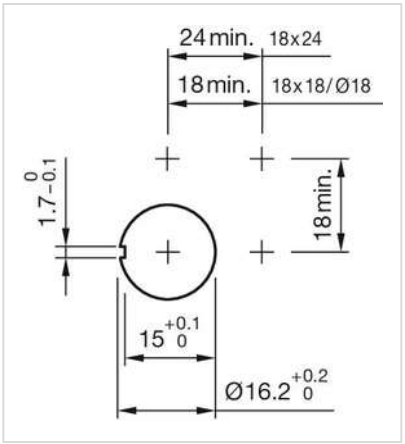
**Switching positions:**



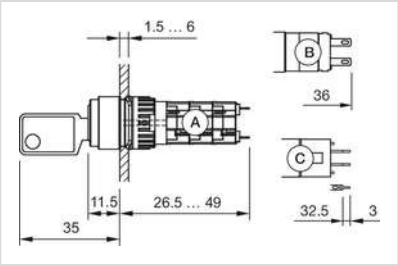

**Wiring diagrams:**




**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