Your Expert Partner for **Human Machine Interfaces**

Actuator

Distribution by
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51-
141.025D2



https://digikey.eao.com/p/51-141.025D2

Your product:



51-141.025D2
Actuator

FRONT

Front dimension: Ø 18 mm

MOUNTING

Design: raised

ELECTRICAL CHARACTERISTICS

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.

Protection class: II

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

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

MECHANICAL CHARATERISTIC

Tightening torque: Fixing nut max. 0.5 Nm

Switching system:

Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.

Switching angle:	42° right
Switching positions:	2 positions
Terminal:	Soldering terminal
Switching action:	Rest (a) - Momentary
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
Mechanical lifetime:	50 000 cycles of operation
Weight:	0.026 kg
Switching system:	Snap-action switching element
Contact material:	Gold

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
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)
Climate resistance:	Standard condition, as per DIN EN 60068-2-30 Changing condition, as per DIN EN 60068-2-14

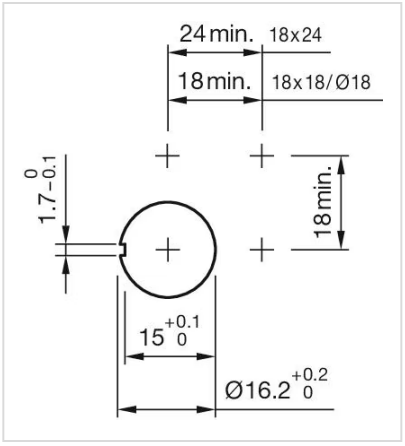
CERTIFICATE

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

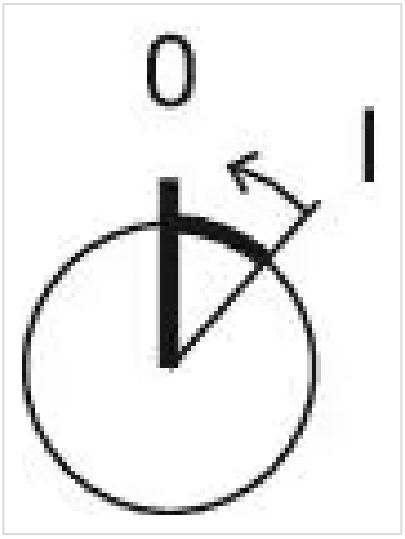
OTHER

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

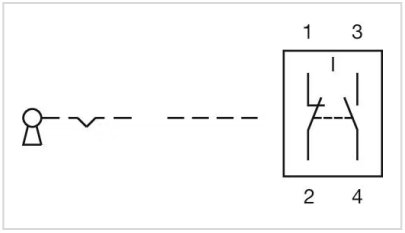
Mounting cut-outs:



Switching positions:



Wiring diagrams:



Dimension drawings:

