

Your Expert Partner for Human Machine Interfaces

Actuator

51-138.025D2F





https://www.eao.com/p/51-138.025D2F

Your product:



51-138.025D2F Actuator

FRONT	
Front dimension:	Ø 25 mm
Front form:	Round
MOUNTING	
Design:	Flush
Mounting type:	Panel mounting
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:	4 NC / 4 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 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 Max. wire diameter 2 wires à 1.2 mm Max. wire cross-section of stranded cable 1 x 1 mm ²
Weight:	0.026 kg
AMBIENT CONDITION	
IP front protection:	IP65, according to DIN EN 60529
Operating temperature:	– 25 °C + 55 °C
Storage temperature:	– 40 °C + 85 °C

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

Shock resistance:

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

Short Description:

Hints:

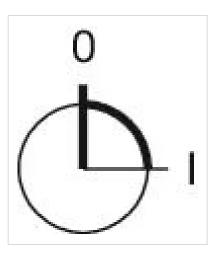
max. number of switching elements:

Switching positions:

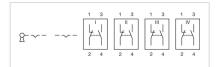
Actuator, Ø 25 mm, Round, 4 NC / 4 NO, Rest (a) - Maintained (a), Soldering terminal, IP65, according to DIN EN 60529

Standard lock: DOM 311

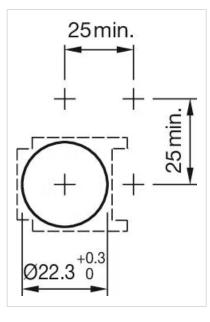
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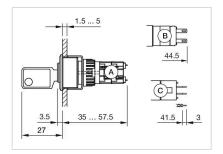
Wiring diagrams:



Mounting cut-outs:



Dimension drawings:



- A = Solder terminal
- $B = Solder terminal 2.8 mm \times 0.5 mm$ C = Universal terminal 2.0 mm x 0.5 mm