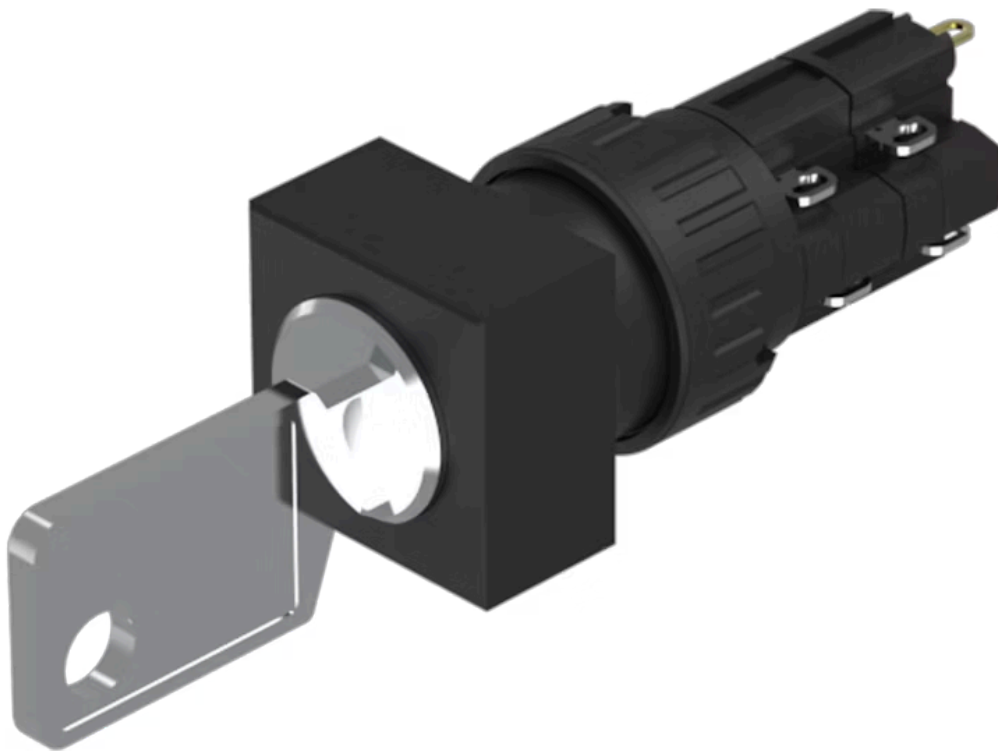


Actuator

51-
256.025D2F

Distribution by
DigiKey

DigiKey



<https://digikey.eao.com/p/51-256.025D2F>

Your product:



51-256.025D2F Actuator

FRONT

Front dimension: 18 mm x 18 mm

MOUNTING

Mounting cut-out: 21 mm x 21 mm

Design: flush

ELECTRICAL CHARACTERISTICS

Contacts: 2 NC / 2 NO

Electrical lifetime: 50 000 cycles of operation

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

Standards: According to EN/IEC 61058-1

Electric strength: 2500 VAC, 50 Hz, 1 min. between all terminals and earth, according to IEC 61058-1, part 15

Thermal current I_{th}: 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

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)

MECHANICAL CHARACTERISTIC

Switching system: Snap-action switching element

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
Switching action:	Rest (a) - Maintained
Mechanical lifetime:	50 000 cycles of operation
Contact material:	Gold
Terminal:	Soldering terminal
Switching angle:	90° right
Operating force:	4 N ... 6 N
Tightening torque:	Fixing nut max. 0.5 Nm
Switching positions:	2 positions
Switching system:	Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.
Weight:	0.026 kg

AMBIENT CONDITION

Climate resistance:	Standard condition, as per DIN EN 60068-2-30 Changing condition, as per DIN EN 60068-2-14
Shock resistance:	15 g for 11 ms, as per DIN / EN 60512-4-3, DIN / EN 60068-2-27 (Single impacts, semi-sinusoidal)
Storage temperature:	– 40 °C ... + 85 °C
Operating temperature:	– 25 °C ... + 55 °C
IP front protection:	IP65, according to DIN EN 60529
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

CERTIFICATE

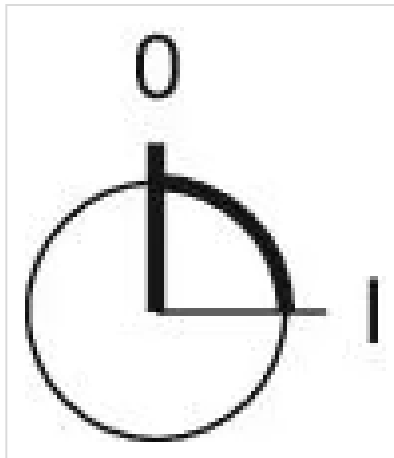
Conformities:	CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 30 / EU (EMC), 2014 / 35 / EU (LVD)
Approbations:	CB (IEC 61058-1), CQC, CSA, DNV, ENEC (EN 61058-1), UL

OTHER

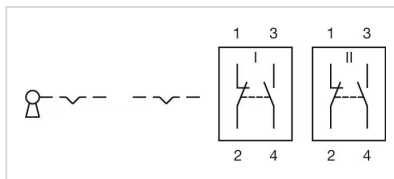
Housing colour:	Black
max. number of switching elements:	4
Hints:	Standard lock: DOM 311
Short Description:	

Actuator, 21 mm x 21 mm, 18 mm x 18 mm, 2 NC / 2 NO, Rest (a) - Maintained,
Soldering terminal, IP65, according to DIN EN 60529

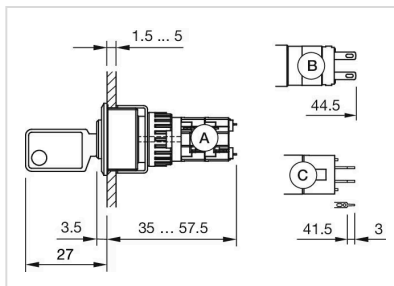
Switching positions:



Wiring diagrams:



Dimension drawings:



A = Solder terminal
B = Solder terminal 2.8 mm x 0.5 mm
C = Universal terminal 2.0 mm x 0.5 mm

Mounting cut-outs:

