

Your Expert Partner for Human Machine Interfaces

## Actuator

51-281.0252F Distribution by DigiKey







https://digikey.eao.com/p/51-281.0252F

### Your product:



# 51-281.0252F Actuator

MOUNTING	
Design:	Flush
Mounting type:	Panel mounting
<b>OPERATING-/INDICATION PART</b>	
Lens illumination:	Illuminated
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:	1 NC / 1 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

Terminal:	Soldering terminal
Contact material:	Gold
Switching action:	Maintained
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:	1 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 <sup>2</sup>
Weight:	0.005 kg

#### **AMBIENT CONDITION**

IP front protection:	IP65, according to DIN EN 60529
Operating temperature:	– 25 °C + 55 °C, mounted as a block, make sure the heat can escape freely
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 Hz1500 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)

RoHS:

#### OTHER

**REACH:** 

Short Description:	Actuator, Illuminated, 1 NC / 1 NO, Maintained, Soldering terminal, IP65, according to DIN EN 60529

Housing colour:

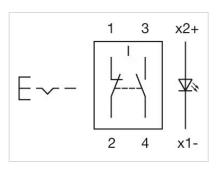
Black

**REACH** compliant

RoHS compliant

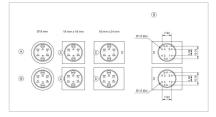
max. number of switching elements:

#### Wiring diagrams:



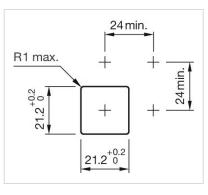
4

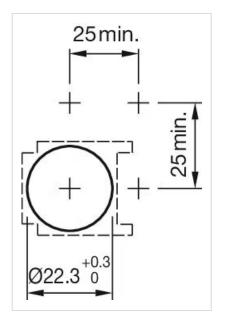
#### **Component layouts:**

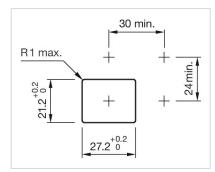


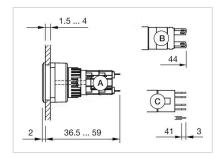
- A = Universal terminal (rear side)
- B = Plug-in terminal (rear side)C = Anti twist device
- D = Drilling plan

#### Mounting cut-outs:









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