Your Expert Partner for **Human Machine Interfaces**

# Actuator

Distribution by
DigiKey

14-
509.02502



https://digikey.eao.com/p/14-509.02502

Your product:



# 14-509.02502
# Actuator

## FRONT

| | |
|---|---|
| **Front bezel colour:** | Nature |
| **Front bezel material:** | Aluminium |

## OPERATING-/INDICATION PART

| | |
|---|---|
| **Lever material:** | plastic |
| **Lever shape:** | short |
| **Lever colour:** | Black |

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| **Electrical lifetime:** | 50 000 cycles of operation |
| **Protection class:** | II |
| **Switching voltage and switching current:** | 250 VAC, 5 A (ohmic)<br>250 VAC, 2 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) |
| **Rated Operational Voltage Ue:** | 250 VAC/DC 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. |
| **Electric strength:** | 3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC 61058-1 |
| **Contacts:** | 4 NC / 4 NO |
| **Standards:** | According to EN/IEC 61058-1 |

## MECHANICAL CHARATERISTIC

| | |
|---|---|
| **Operating Travel:** | ca. 90° |
| **Switching positions:** | 2 positions |
| **Switching action:** | Rest - Maintained |
| **Switching angle:** | 90° right |
| **Weight:** | 0.03 kg |
| **Contact material:** | Gold |
| **Tightening torque:** | Fixing nut max. 0.25 Nm |
| **Switching system:** | Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element. |
| **Mechanical lifetime:** | 1 Mio. cycles of operation |
| **Switching system:** | Snap-action switching element |
| **Terminal:** | Soldering terminal |
| **Operating force:** | 3 N ... 6 N, depending on the number of switching elements |

## AMBIENT CONDITION

| | |
|---|---|
| **Operating temperature:** | – 25 °C ... + 55 °C, mounted as a block, make sure the heat can escape freely |
| **Shock resistance:** | Max. 150 m / $s^2$, pulse width 11 ms, 3-axis, (semi-sinusoidal as per EN IEC 60068-2-27) |
| **Climate resistance:** | Standard condition, as per DIN EN 60068-2-78<br>Standard cyclic, as per DIN IEC 60068-2-30 |
| **Storage temperature:** | – 40 °C ... + 85 °C |
| **Vibration resistance:** | Max. 100 m / $s^2$ from 10 Hz ... 500 Hz, (sinusoidal EN IEC 60068-2-6) |
| **IP front protection:** | IP67, according to DIN EN 60529 |

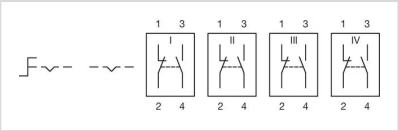
## CERTIFICATE

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

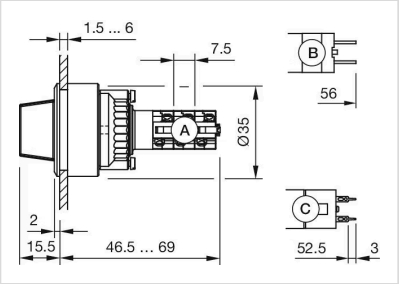
## OTHER

| | |
|---|---|
| **max. number of switching elements:** | 4 |
| **Hints:** | The colour of anodised aluminium parts can vary due to technical production reasons |
| **Short Description:** | Actuator, non illuminative, Black, short, Nature, Aluminium, anodised, 4 NC / 4 NO, Rest - Maintained, Soldering terminal, IP67, according to DIN EN 60529 |

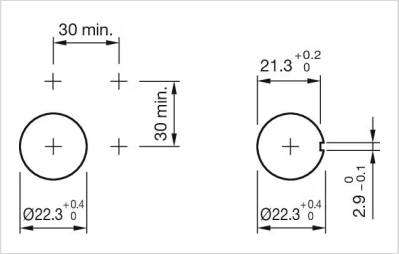
**Wiring diagrams:**




**Dimension drawings:**




**Mounting cut-outs:**




**Switching positions:**

