

# Actuator

14-  
747.0292

Distribution by  
DigiKey

**DigiKey**



<https://digikey.eao.com/p/14-747.0292>

Your product:

---



## 14-747.0292

### Actuator

#### FRONT

**Front form:** Round

#### MOUNTING

**Mounting type:** Panel mounting

#### OPERATING-/INDICATION PART

**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,  $\cos(\phi) = 0.7$ )
- 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  $U_e$ :** 250 VAC/DC according to EN IEC 61058-1

**Switching rating:** 250 V @ 3 A

**Electrical lifetime:** 50 000 cycles of operation

**Electric strength:** 3000 VAC, 50 Hz, 1 min. between all terminals and earth, according to EN/IEC 61058-1

**Protection class:** II

**Standards:** According to EN/IEC 61058-1

**Thermal current  $I_{th}$ :** The maximum current in continuous operation and at ambient temperature not exceeding the quoted maximum values.  
3 A

## MECHANICAL CHARACTERISTICS

<b>Terminal:</b>	Universal terminal, 2 x 0.5 mm
<b>Contact material:</b>	Gold
<b>Switching action:</b>	Maintained
<b>Switching system:</b>	Snap-action switching element
<b>Switching system:</b>	Self-cleaning, double-break snap action switching system, 1 normally closed and 1 normally open contact per element.
<b>Mechanical lifetime:</b>	1 Mil. cycles of operation
<b>Operating force:</b>	5 N ... 8 N
<b>Operating Travel:</b>	3 mm
<b>Tightening torque:</b>	Fixing nut max. 0.25 Nm
<b>Weight:</b>	0.014 kg

## AMBIENT CONDITION

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

## CERTIFICATE

<b>Approbations:</b>	CB (IEC 61058-1), CQC, CSA, DNV, EAC, ENEC (EN 61058-1), UL, VDE
<b>Conformities:</b>	CE, UKCA, 2011 / 65 / EC (RoHS), 2014 / 35 / EU (LVD)
<b>REACH:</b>	REACH compliant
<b>RoHS:</b>	RoHS compliant

## OTHER

<b>Short Description:</b>	Actuator, Illuminated, Round, 1 NC / 1 NO, Maintained, Universal terminal, 2 x 0.5 mm, IP67, according to DIN EN 60529
<b>Housing colour:</b>	Black

1

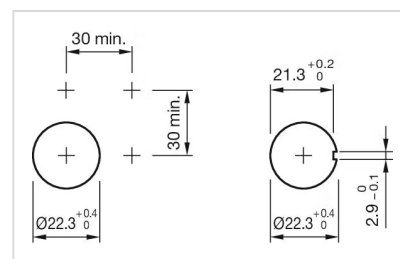
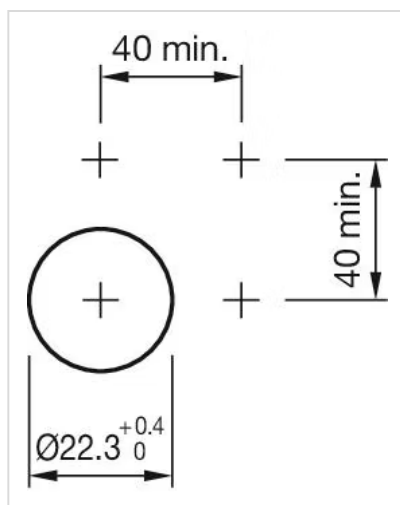
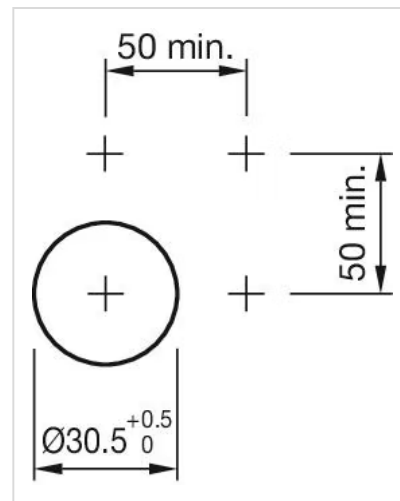
The diagram shows a 4-terminal network. The input terminals are labeled 1 and 2, and the output terminals are labeled 3 and 4. A dependent current source, represented by a diamond symbol with an arrow pointing downwards, is connected between terminals 3 and 4. The current source is controlled by the voltage across terminals 1 and 2, indicated by a wavy line and a horizontal line connecting the two input terminals.

Figure 1 consists of three diagrams labeled A, B, and C, each showing a circular structure with concentric rings and various dimensions.

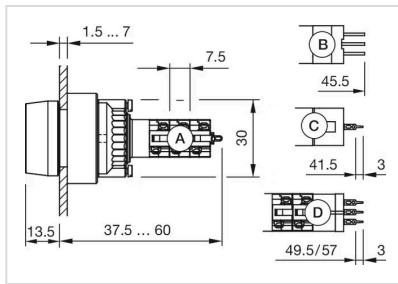
- Diagram A:** Shows a circular structure with an outer ring of width  $2\delta$  and an inner ring of width  $2\delta$ . The inner ring has a central hole of diameter  $\phi$ . The outer ring has a central hole of diameter  $\phi + \delta$ . The inner ring is labeled  $\phi + \delta$  and  $\phi$ .
- Diagram B:** Shows a circular structure with an outer ring of width  $2\delta$  and an inner ring of width  $2\delta$ . The inner ring has a central hole of diameter  $\phi$ . The outer ring has a central hole of diameter  $\phi + \delta$ . The inner ring is labeled  $\phi + \delta$  and  $\phi$ .
- Diagram C:** Shows a circular structure with an outer ring of width  $2\delta$  and an inner ring of width  $2\delta$ . The inner ring has a central hole of diameter  $\phi$ . The outer ring has a central hole of diameter  $\phi + \delta$ . The inner ring is labeled  $\phi + \delta$  and  $\phi$ .

A = Terminals (rear side)  
B = Anti twist device  
C = Diode block  
D = Drilling plan (component side)

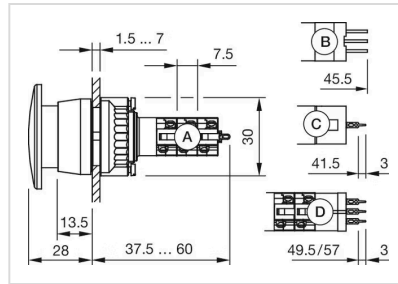
Figure 1 illustrates the dimensioning of a hole and its position. The hole has a diameter of  $\varnothing 30.5^{+0.5}_0$ . The position is defined by two 35 mm dimensions: one from the left edge to the center of the hole, and another from the bottom edge to the center of the hole.



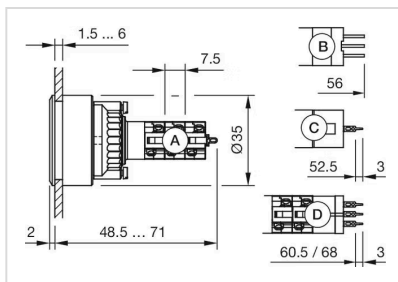
**Dimension drawings:**



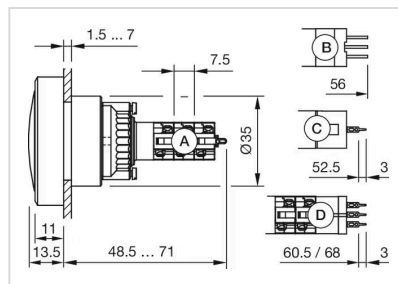
A = Solder terminal  
 B = Plug-in terminal 2.8 x 0.5 mm  
 C = Universal terminal 2.0 mm x 0.5 mm  
 D = Universal-Solder terminal



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



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



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