

# Actuator

14-  
748.0292

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## 14-748.0292

### 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

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Figure 1 consists of three cross-sectional diagrams labeled A, C, and D, showing different configurations of a composite structure. Each diagram shows a central core with two concentric circles representing diameters  $D_1$  and  $D_2$ , and an outer layer with a thickness of 20 mm.

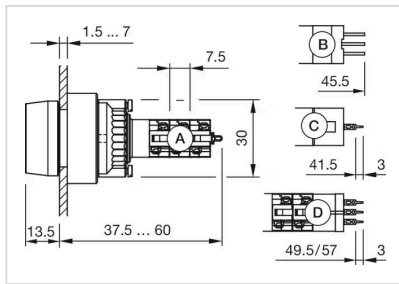
- Diagram A:** Shows a central core with  $D_1 = 10$  and  $D_2 = 10$ . The outer layer has a thickness of 20 mm.
- Diagram C:** Shows a central core with  $D_1 = 10$  and  $D_2 = 10$ . The outer layer has a thickness of 20 mm.
- Diagram D:** Shows a central core with  $D_1 = 10$  and  $D_2 = 10$ . The outer layer has a thickness of 20 mm. Additional dimensions are provided: a total width of 102.16 mm, a distance of 5.08 mm from the center to the edge of the outer layer, and a distance of 2.54 mm from the center to the edge of the inner layer. A dimension of 10.16 mm is also shown for the inner layer.

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

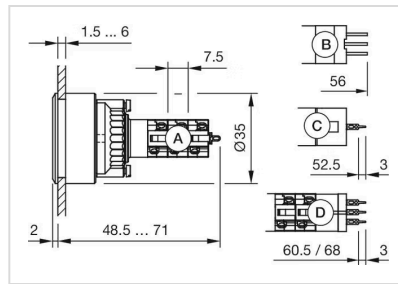
Technical drawing of a circular feature with three points marked with crosses. Dimension lines indicate a horizontal distance of 35 mm between the top two points and a vertical distance of 35 mm between the top and bottom points. The diameter of the circle is labeled as  $\text{Ø}30.5^{+0.5}_0$ .

Figure 1 shows the dimensioning of a hole and its position. The hole has a diameter of  $\varnothing 22.3^{+0.4}_0$ . The distance between the hole's center and the datum is 40 mm. The distance between the datum and the hole's center is also 40 mm.

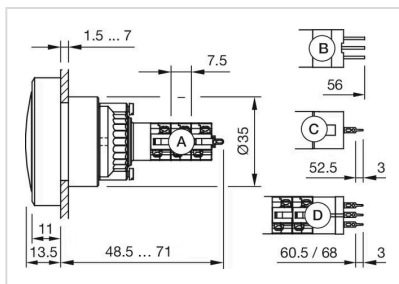
**Dimension drawings:**



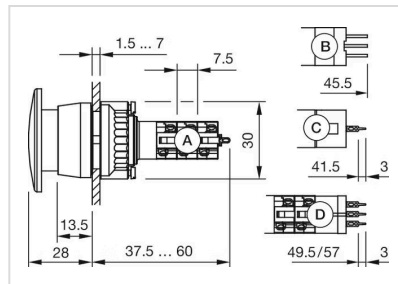
A = Solder terminal  
 B = Plug-in terminal 2.8 x 0.5 mm  
 C = Universal terminal 2.0 mm x 0.5 mm  
 D = Universal-Solder terminal



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