

## IR12.P06S-F40.NO1Z.7BCV

Inductive proximity switch - large sensing distance

Article number: 11148363

### Overview

- 6 mm
- NPN make function (NO)
- cable, 2 m
- 25 ... 75 °C
- IP 67



*Picture similar*



### Technical data

#### General data

|                                            |                                                       |
|--------------------------------------------|-------------------------------------------------------|
| Mounting type                              | Flush                                                 |
| Special type                               | Enhanced distance (GammaProx)                         |
| Nominal sensing distance<br>S <sub>n</sub> | 6 mm                                                  |
| Temperature drift                          | ± 10 %                                                |
| Hysteresis                                 | 3 ... 20 % of S <sub>r</sub>                          |
| Output indicator                           | LED red                                               |
| Correction factor typ.                     | Mild steel 100 %, stainless steel 75 %, aluminum 45 % |

#### Electrical data

|                                       |                        |
|---------------------------------------|------------------------|
| Switching frequency                   | 1 kHz                  |
| Voltage supply range +V <sub>s</sub>  | 6 ... 36 VDC           |
| Current consumption max.<br>(no load) | 10 mA                  |
| Output circuit                        | NPN make function (NO) |

#### Electrical data

|                             |          |
|-----------------------------|----------|
| Voltage drop V <sub>d</sub> | < 2 VDC  |
| Output current              | < 100 mA |
| Short circuit protection    | Yes      |
| Reverse polarity protection | Yes      |

#### Mechanical data

|                         |                      |
|-------------------------|----------------------|
| Type                    | Cylindrical threaded |
| Material (sensing face) | PBT                  |
| Housing material        | Brass nickel plated  |
| Dimension               | 12 mm                |
| Housing length          | 40 mm                |
| Connection types        | Cable, L=2 m         |
| Tightening torque max.  | 15 Nm (A: 10 Nm)     |

#### Ambient conditions

|                       |                |
|-----------------------|----------------|
| Operating temperature | -25 ... +75 °C |
| Protection class      | IP 67          |

### Remarks

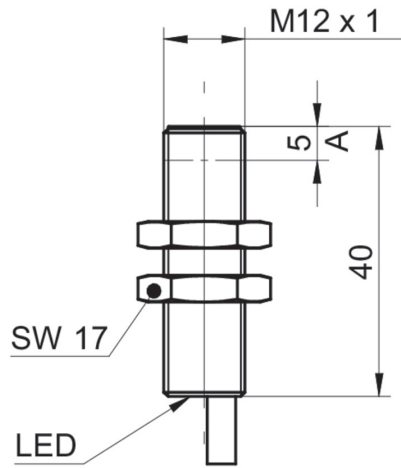
- Triple sensing distance

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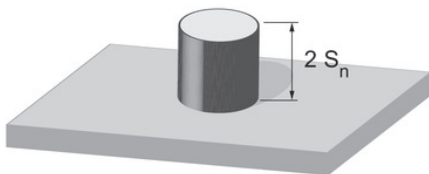
### Dimension drawing



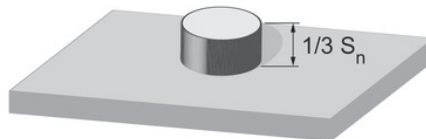
### Connection diagram



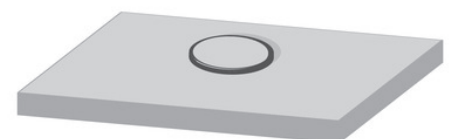
### Correction factors for different mounting situation (approx.)



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | 100 %             |
| Stainless steel   | 100 %             |
| Aluminum          | 100 %             |



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | 100 %             |
| Stainless steel   | 95 %              |
| Aluminum          | 95 %              |



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | not possible      |
| Stainless steel   | 95 %              |
| Aluminum          | 80 %              |

**Mounting instructions**

