

## Overview

- 6 mm
- PNP break function (NC)
- connector M12
- -25 ... 75 °C
- IP 67



*Picture similar*



## Technical data

### General data

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

### Electrical data

|                                       |                         |
|---------------------------------------|-------------------------|
| Switching frequency                   | 1 kHz                   |
| Voltage supply range +Vs              | 6 ... 36 VDC            |
| Current consumption max.<br>(no load) | 10 mA                   |
| Output circuit                        | PNP break function (NC) |

### Electrical data

|                             |          |
|-----------------------------|----------|
| Voltage drop Vd             | < 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          | 50 mm                |
| Connection types        | Connector M12        |
| Tightening torque max.  | 15 Nm (A: 10 Nm)     |

### Ambient conditions

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

## Remarks

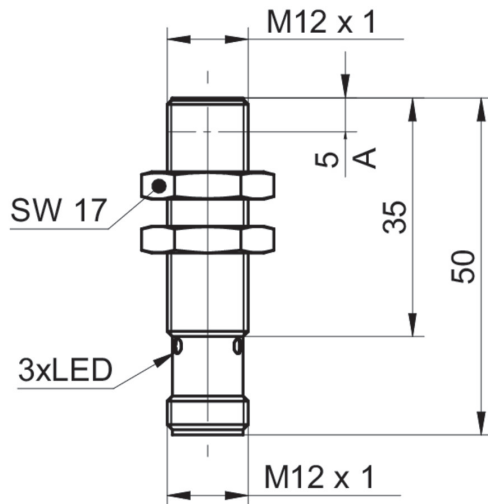
- Triple sensing distance

## IR12.P06S-F50.PC1Z.7BO

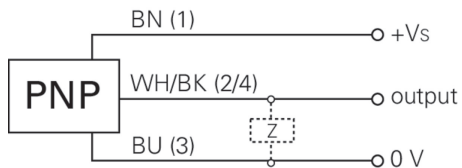
Inductive proximity switch - large sensing distance

Article number: 11148659

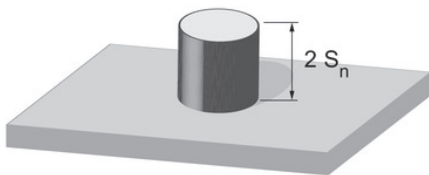
### Dimension drawing



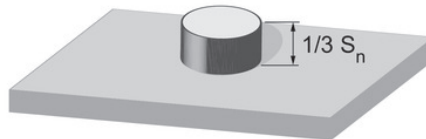
### Connection diagram



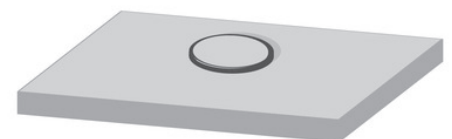
### Correction factors for different mounting situation (approx.)



| 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**

