

## Overview

- 3 mm
- NPN break function (NC)
- connector M8
- -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> | 3 mm                                                  |
| Temperature drift                          | ± 10 %                                                |
| Hysteresis                                 | 3 ... 20 % of S <sub>r</sub>                          |
| Output indicator                           | 3 port LED red                                        |
| Correction factor typ.                     | Mild steel 100 %, stainless steel 65 %, aluminum 30 % |

### Electrical data

|                                       |                         |
|---------------------------------------|-------------------------|
| Switching frequency                   | 2 kHz                   |
| Voltage supply range +V <sub>s</sub>  | 6 ... 36 VDC            |
| Current consumption max.<br>(no load) | 10 mA                   |
| Output circuit                        | NPN break function (NC) |

### 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        | Stainless steel      |
| Dimension               | 8 mm                 |
| Housing length          | 46 mm                |
| Connection types        | Connector M8         |
| Tightening torque max.  | 10 Nm (A: 7 Nm)      |

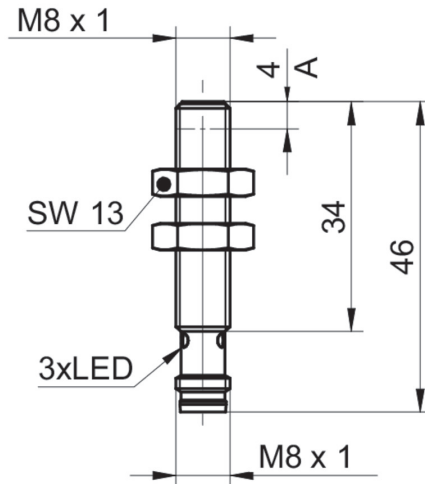
### Ambient conditions

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

## Remarks

- Triple sensing distance

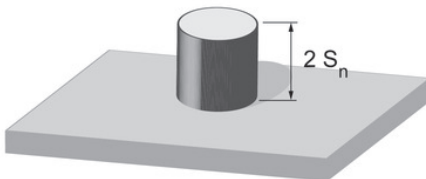
#### Dimension drawing



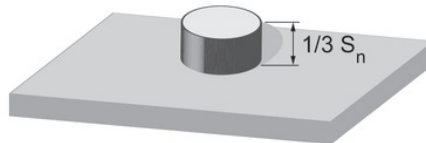
#### Connection diagram



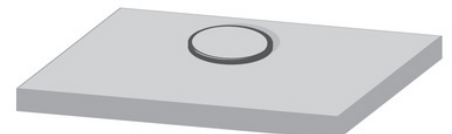
#### Correction factors for different mounting situation (approx.)



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



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | 100 %             |
| Stainless steel   | 90 %              |
| Aluminum          | 85 %              |



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | 100 %             |
| Stainless steel   | 80 %              |
| Aluminum          | 70 %              |

**Mounting instructions**

