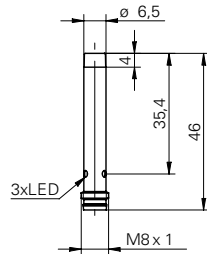


# Inductive proximity switch

**IR06.P06S-11148717**

## dimension drawing



## general data

|                                |                                                          |
|--------------------------------|----------------------------------------------------------|
| mounting type                  | non-flush                                                |
| special type                   | enhanced distance (GammaProx)                            |
| nominal sensing distance $S_n$ | 6 mm                                                     |
| temperature drift              | $\pm 10\%$ (0 ... +60 °C)<br>$\pm 15\%$ (-25 ... +75 °C) |
| hysteresis                     | 3 ... 20 % of $S_r$                                      |
| output indicator               | 3 port LED red                                           |
| correction factor typ.         | mild steel 100 %, stainless steel 80 %, aluminum 50 %    |

## electrical data

|                                    |                        |
|------------------------------------|------------------------|
| switching frequency                | < 400 Hz               |
| voltage supply range +Vs           | 6 ... 36 VDC           |
| current consumption max. (no load) | 12 mA                  |
| output circuit                     | PNP make function (NO) |
| voltage drop $V_d$                 | < 2 VDC                |
| output current                     | < 100 mA               |
| short circuit protection           | yes                    |
| reverse polarity protection        | yes                    |

## mechanical data

|                         |                    |
|-------------------------|--------------------|
| type                    | cylindrical smooth |
| material (sensing face) | PBT                |
| housing material        | stainless steel    |
| dimension               | 6,5 mm             |
| housing length          | 46 mm              |
| connection types        | connector M8       |

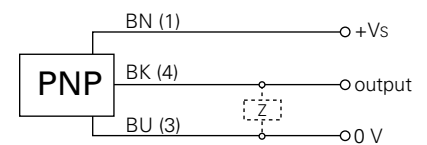
## ambient conditions

|                       |                |
|-----------------------|----------------|
| operating temperature | -25 ... +75 °C |
| protection class      | IP 67          |

## photo



## connection diagram

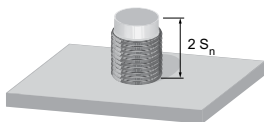


• triple sensing distance

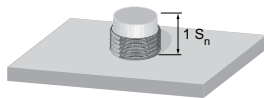
## Inductive proximity switch

**IR06.P06S-11148717**

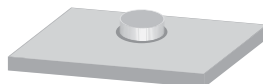
### correction factors for different mounting situations (approximate values)



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



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | 110 %             |
| Stainless steel   | 95 %              |
| Aluminum          | 90 %              |



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