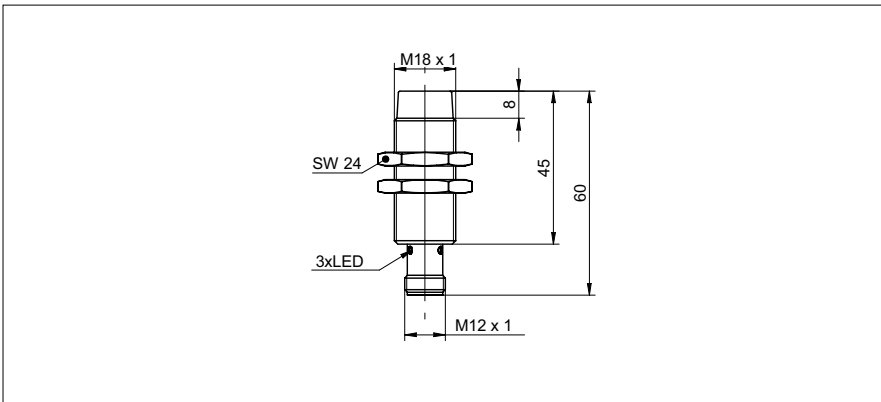


# Inductive proximity switch

**IR18.P15S-11149133**

**dimension drawing**



**general data**

|                                |  |
|--------------------------------|--|
| mounting type                  | non-flush  |
| special type                   | enhanced distance (GammaProx)                                    |
| nominal sensing distance $S_n$ | 15 mm  |
| temperature drift              | - 5 % / + 10 % (+10 ... +60 °C)<br>- 5 % / + 15 % (0 ... +65 °C) |
| hysteresis                     | 3 ... 20 % of $S_r$  |
| output indicator               | 3 port LED red   |
| correction factor typ.         | mild steel 100 %, stainless steel 85 %, aluminum 55 %            |

**electrical data**

|                                    |                        |
|------------------------------------|------------------------|
| switching frequency                | < 400 Hz               |
| voltage supply range +Vs           | 6 ... 36 VDC           |
| current consumption max. (no load) | 10 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 threaded |
| material (sensing face) | PBT                  |
| housing material        | brass nickel plated  |
| dimension               | 18 mm                |
| housing length          | 60 mm                |
| connection types        | connector M12        |
| tightening torque max.  | 40 Nm                |

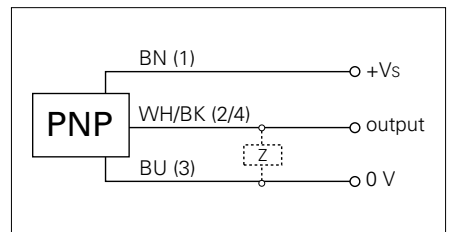
**ambient conditions**

|                       |              |
|-----------------------|--------------|
| operating temperature | 0 ... +65 °C |
| protection class      | IP 67        |

**photo**



**connection diagram**

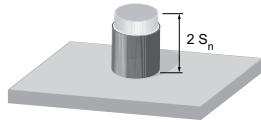


- increased sensing distance

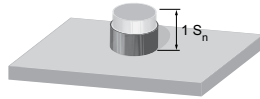
# Inductive proximity switch

# IR18.P15S-11149133

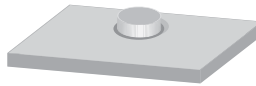
**correction factors for different mounting situations (approximate values)**



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



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | 105 %             |
| Stainless steel   | 100 %             |
| Aluminum          | 100 %             |



| Mounting material | Correction factor |
|-------------------|-------------------|
| Mild steel        | not possible      |
| Stainless steel   | 115%              |
| Aluminum          | 95 %              |

**mounting instructions**

