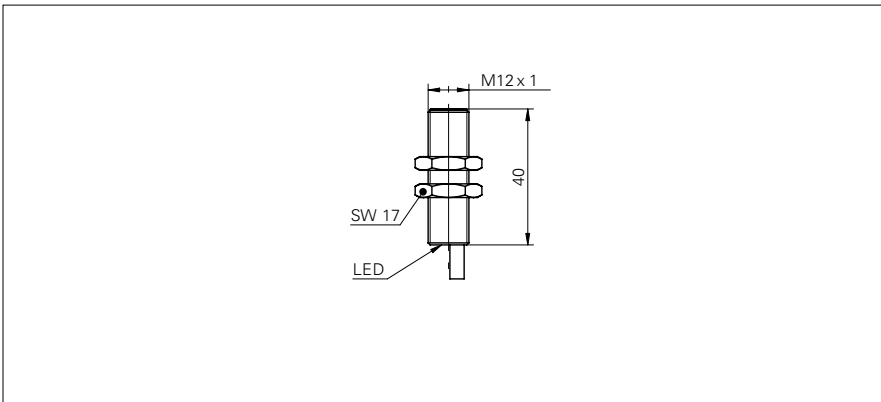


# Inductive proximity switch

**IR12.P04F-11119438**

**dimension drawing**



**general data**

|                                |                     |
|--------------------------------|---------------------|
| mounting type                  | flush               |
| special type                   | factor 1            |
| nominal sensing distance $S_n$ | 4 mm                |
| hysteresis                     | 3 ... 20 % of $S_r$ |
| output indicator               | LED red             |

**electrical data**

|                                    |                        |
|------------------------------------|------------------------|
| switching frequency                | < 2 kHz                |
| voltage supply range +Vs           | 5 ... 36 VDC           |
| current consumption max. (no load) | 12 mA                  |
| output circuit                     | NPN make function (NO) |
| voltage drop Vd                    | < 2 VDC                |
| output current                     | < 200 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, 2 m           |
| tightening torque max.  | 15 Nm                |

**ambient conditions**

|                       |                |
|-----------------------|----------------|
| operating temperature | -25 ... +75 °C |
| storage temperature   | -40 ... +85 °C |
| protection class      | IP 67          |

**photo**



**connection diagram**



- same sensing distance on all metals (no reduction factor)