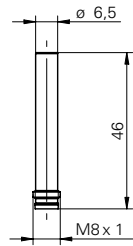


# Inductive distance measuring sensors

**IR06.D03S-11141032**

**dimension drawing**



**general data**

|                       |  |
|-----------------------|--|
| mounting type         | quasi-flush  |
| measuring distance Sd | 0 ... 3 mm   |
| resolution            | < 0,001 mm (stat.)<br>< 0,01 mm (dynam.)                               |
| repeat accuracy       | < 0,02 mm  |
| linearity error       | ± 120 µm (S = 0,75 ... 2,25 mm)<br>± 360 µm (S = 0 ... 3 mm)           |
| temperature drift     | ± 4 % (Full Scale; 0 ... +60 °C)<br>± 6 % (Full Scale; -10 ... +70 °C) |

**electrical data**

|  |  |
|--|--|
| response time (factory characteristic) | < 0,5 ms   |
| voltage supply range +Vs               | 6 ... 36 VDC   |
| current consumption max. (no load)     | 12 mA  |
| output circuit                         | current output   |
| output signal                          | 0 ... 10 mA  |
| load resistance                        | < 100 Ohm/V * Vs - 400 Ohm<br>> 500 Ohm (Vs = 30 ... 36 VDC) |
| short circuit protection               | yes  |
| reverse polarity protection            | yes  |

**mechanical data**

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

**ambient conditions**

|                       |                |
|-----------------------|----------------|
| operating temperature | -10 ... +70 °C |
| protection class      | IP 67          |

**photo**



**connection diagram**

