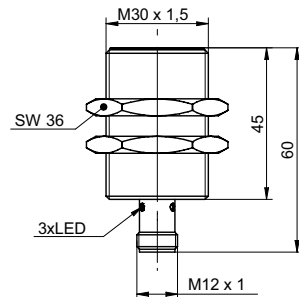


## Inductive distance measuring sensors

**IR30.D18S-11179023**

### dimension drawing



### general data

|                       |                                                               |
|-----------------------|---------------------------------------------------------------|
| mounting type         | flush                                                         |
| measuring distance Sd | 0 ... 18 mm                                                   |
| resolution            | < 0,005 mm (stat.)<br>< 0,01 mm (dynam.)                      |
| repeat accuracy       | < 0,02 mm                                                     |
| linearity error       | ± 800 µm (S = 4,5 ... 13,5 mm)<br>± 2400 µm (S = 0 ... 18 mm) |
| temperature drift     | ± 6 % (Full Scale)                                            |

### electrical data

|                                        |                |
|----------------------------------------|----------------|
| response time (factory characteristic) | < 2 ms         |
| voltage supply range +Vs               | 12 ... 36 VDC  |
| current consumption max. (no load)     | 10 mA          |
| output circuit                         | voltage output |
| output signal                          | 0 ... 10 VDC   |
| load resistance                        | > 4000 Ohm     |
| short circuit protection               | yes            |
| reverse polarity protection            | yes            |

### mechanical data

|                        |                      |
|------------------------|----------------------|
| type                   | cylindrical threaded |
| housing material       | brass nickel plated  |
| dimension              | 30 mm                |
| housing length         | 60 mm                |
| connection types       | connector M12        |
| tightening torque max. | 100 Nm               |

### ambient conditions

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

### photo



### connection diagram

