

## IWRM 12U9704/S14

Inductive distance sensors

Article number: 10145778

### Overview

- 0 ... 4 mm
- voltage output
- connector M12
- -10 ... 70 °C
- IP 67



*Picture similar*



### Technical data

#### General data

|                       |                                           |
|-----------------------|-------------------------------------------|
| Mounting type         | Quasi-flush                               |
| Measuring distance Sd | 0 ... 4 mm                                |
| Resolution            | < 0,001 mm (stat.)<br>< 0,005 mm (dynam.) |
| Repeat accuracy       | < 0,01 mm                                 |
| Linearity error       | ± 160 µm                                  |
| Temperature drift     | ± 4 % (Full Scale)                        |

#### Electrical data

|                                        |                |
|----------------------------------------|----------------|
| Response time (factory characteristic) | < 2 ms         |
| Voltage supply range +Vs               | 15 ... 30 VDC  |
| Current consumption max. (no load)     | 20 mA          |
| Output circuit                         | Voltage output |

#### Electrical data

|                             |              |
|-----------------------------|--------------|
| Output signal               | 0 ... 10 VDC |
| Load resistance             | > 1000 Ohm   |
| Short circuit protection    | Yes          |
| Reverse polarity protection | Yes          |

#### Mechanical data

|                        |                      |
|------------------------|----------------------|
| Type                   | Cylindrical threaded |
| Housing material       | Brass nickel plated  |
| Dimension              | 12 mm                |
| Housing length         | 50 mm                |
| Connection types       | Connector M12        |
| Tightening torque max. | 15 Nm (Front: 10 Nm) |

#### Ambient conditions

|                       |                |
|-----------------------|----------------|
| Operating temperature | -10 ... +70 °C |
| Protection class      | IP 67          |

### Remarks

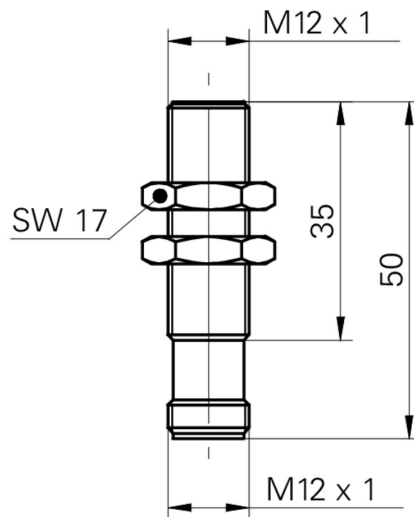
- Linearity deviation (S = 0,5...4 mm) ± 4% (Full Scale)

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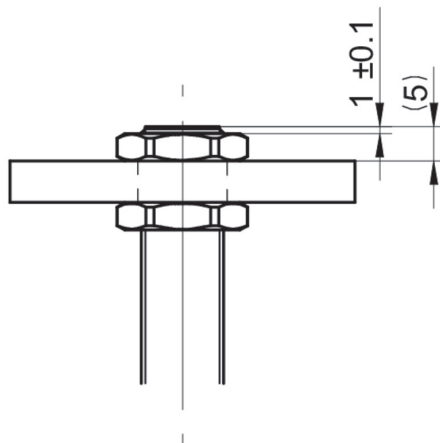
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### Dimension drawing



### Installation drawing



### Connection diagram

