

### Basic features

|                            |   |
|----------------------------|---|
| <b>Approval/Conformity</b> | CE<br>IECEX<br>ATEX<br>WEEE   |
| <b>Basic standard</b>      | EN 60079-0<br>EN 60079-11<br>IEC 60947-5-6  |
| <b>Ex marking</b>          | ATEX: Ex II 1G Ex ia IIC T6 Ga<br>Ex II 1D Ex ia IIC T80 °C Da<br>IECEX: Ex ia IIC T6 Ga<br>Ex ia IIC T80 °C Da |

### Electrical connection

|                                    |                            |
|------------------------------------|----------------------------|
| <b>Connection</b>                  | M12x1-Male, 4-pin, A-coded |
| <b>Polarity reversal protected</b> | no                         |
| <b>Short-circuit protection</b>    | no                         |

### Electrical data

|   |             |
|---|-------------|
| <b>Current consumption max., damped</b> | 1 mA        |
| <b>Operating voltage Ub</b>             | 7.7...9 VDC |
| <b>Rated insulation voltage Ui</b>      | 12.6 V DC   |
| <b>Rated operating voltage Ue DC</b>    | 8.2 V       |
| <b>Rated series resistance Rv</b>       | 1000 Ohm    |

### Environmental conditions

|                                |                                       |
|--------------------------------|---------------------------------------|
| <b>Ambient temperature</b>     | -20...60 °C, depending on Ex category |
| <b>Contamination scale</b>     | 3                                     |
| <b>EN 60068-2-27, Shock</b>    | Half-sinus, 30 g <sub>n</sub> , 11 ms |
| <b>EN 60068-2-6, Vibration</b> | 55 Hz, amplitude 1 mm, 3x30 min       |

### Functional safety

|                     |        |
|---------------------|--------|
| <b>MTTF (40 °C)</b> | 4110 a |
|---------------------|--------|

### Interface

|                  |       |
|------------------|-------|
| <b>Interface</b> | NAMUR |
|------------------|-------|

### Material

|                                 |                      |
|---------------------------------|----------------------|
| <b>Housing material</b>         | Brass, nickel-plated |
| <b>Material sensing surface</b> | PA                   |

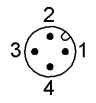
### Mechanical data

|                          |                    |
|--------------------------|--------------------|
| <b>Dimension</b>         | Ø 12 x 65 mm       |
| <b>Installation</b>      | for flush mounting |
| <b>Size</b>              | M12x1              |
| <b>Tightening torque</b> | 10 Nm              |

### Range/Distance

|   |       |
|---|-------|
| <b>Rated operating distance Sn</b>      | 2 mm  |
| <b>Repeat accuracy max. (% of Sr)</b>   | 5.0 % |
| <b>Temperature drift max. (% of Sr)</b> | 10 %  |
| <b>Tolerance Sr</b>                     | ±10 % |

## Connector Drawings



## Wiring Diagrams

