



### Basic features

|                     |                             |
|---------------------|-----------------------------|
| Approval/Conformity | CE<br>UKCA<br>cULus<br>WEEE |
|---------------------|-----------------------------|

### Electrical connection

|                             |                            |
|-----------------------------|----------------------------|
| Connection                  | M12x1-Male, 4-pin, A-coded |
| Electrical version          | 3-wire                     |
| Polarity reversal protected | yes                        |
| Short-circuit protection    | yes                        |

### Electrical data

|                                  |             |
|----------------------------------|-------------|
| Current draw max.                | 20 mA       |
| Load cycles                      | 100 mil.    |
| Operating voltage U <sub>b</sub> | 14...30 VDC |
| Protection class                 | III         |

### Environmental conditions

|                              |                    |
|------------------------------|--------------------|
| Ambient temperature          | -25...85 °C        |
| Compensation temperature     | -25...85 °C        |
| EN 60068-2-27, Shock         | 500 g, 1 ms        |
| EN 60068-2-6, Vibration      | 10 g, 25...2000 Hz |
| IP rating                    | IP67               |
| Interference immunity        | EN 61326-2-3: 2013 |
| Media temperature            | -40...125 °C       |
| Noise emission               | EN 61326-2-3: 2013 |
| Storage temperature          | -40...85 °C        |
| Temperature coefficient typ. | ≤ ±0.5 % FSO/10K   |

### Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 806 a |
|--------------|-------|

### Interface

|               |                          |
|---------------|--------------------------|
| Analog output | Analog, voltage 0...10 V |
|---------------|--------------------------|

### Material

|                             |  |
|-----------------------------|--|
| Connector housing, material | Nickel-plated brass                    |
| Gasket, material            | FKM                                    |
| Housing material            | 1.4301 stainless steel                 |
| Measuring cell, material    | Ceramic Al <sub>2</sub> O <sub>3</sub> |
| Process connection material | 1.4301 stainless steel                 |

### Mechanical data

|                        |                   |
|------------------------|-------------------|
| Process connection     | G 1/4" (DIN 3852) |
| Tightening torque max. | 5 Nm              |
| Weight                 | 120 g             |

### Range/Distance

|                          |                 |
|--------------------------|-----------------|
| Accuracy                 | ±0.5 % FSO BFSL |
| Burst pressure           | 35 bar          |
| Long-term stability max. | 0.3 % FSO/year  |
| Measuring range          | 0...10 bar      |
| Overload pressure        | 20 bar          |
| Resolution               | ≤ 14 bits       |
| Response time max.       | 11 ms           |
| Sampling rate            | 1 ms            |

### Remarks

vacuum-tight  
Permissible burden on analog output  $R_{min} = 10 \text{ k}\Omega$   
For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

### Connector Drawings



### Wiring Diagrams

