

### LOW COST PRESSURE TRANSMITTER



#### Applications

- Machine tools
- Hydraulics
- Water treatment

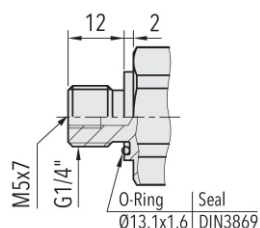
#### Features

- Relative or absolute pressure measurement
- Titanium version optional
- Excellent media compatibility
- Wide selection of designs and options

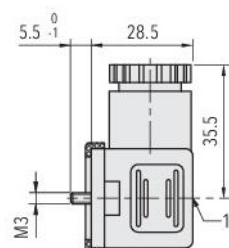
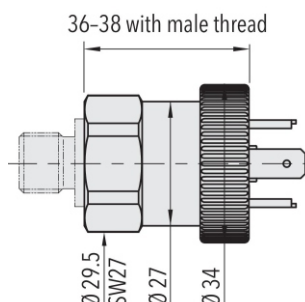
#### Technical Data

|                     |                                                                                 |                      |                                                                                                                        |
|---------------------|---------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------|
| Measuring principle | Thick film on ceramic                                                           | Accuracy @ 25°C typ. | ± 0.5 % FS typ.                                                                                                        |
| Measuring range     | 0 ... 1 to 0 ... 400 bar<br>0 ... 15 to 0 ... 5000 psi                          | Media temperature    | -25°C ... +125°C<br>400 bar/5000 psi: -10°C ... +125°C                                                                 |
| Output signal       | 4 ... 20 mA, 0 ... 5 VDC, 1 ... 6 VDC,<br>0 ... 10 VDC, 0.5 ... 4.5 VDC ratiom. | Ambient temperature  | -25°C ... +85°C<br>Cable PVC 22: -5°C ... +60°C<br>Cable PUR 24: -20°C ... +70°C<br>Cable Raychem 08: -20°C ... +100°C |

#### Dimensions



Other pressure connection on request



| Specifications           |                                                                          |                                                                                                                                                                     |
|--------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy                 | TEB typ. @ -25 ... +85°C                                                 | ± 3.0 % FS typ.                                                                                                                                                     |
|                          | Accuracy @ 25°C typ.                                                     | ± 0.5 % FS typ.                                                                                                                                                     |
|                          | NLH @ 25°C (BSL) typ.                                                    | ± 0.2 % FS typ.                                                                                                                                                     |
|                          | TC zero point and span typ.                                              | ± 0.03 % FS/K typ.                                                                                                                                                  |
|                          | Long term stability 1 year typ.                                          | ± 0.3 % FS typ.                                                                                                                                                     |
| Electrical Data          | Output / supply voltage                                                  | 4 ... 20 mA: 24 (9 ... 30) VDC<br>0 ... 5 VDC: 24 (10 ... 30) VDC<br>1 ... 6 VDC: 24 (10 ... 30) VDC<br>0 ... 10 VDC: 24 (15 ... 30) VDC<br>0.5 ... 4.5 VDC ratiom. |
|                          | Rise time                                                                | Typ. 1 ms / 10 ... 90 % nominal pressure                                                                                                                            |
|                          | Switch-on-delay                                                          | Max. 1.5 s                                                                                                                                                          |
|                          | Inverse-polarity protection, short-circuit strenght @ 25°C during 5 min. | 4 ... 20 mA: to $U_s = 30$ VDC<br>0 ... 10 VDC, 0 ... 5 VDC, 1 ... 6 VDC:<br>to $U_s = 30$ VDC<br>0.5 ... 4.5 VDC ratiometric: to $U_s = 5.25$ VDC                  |
| Environmental conditions | Media temperature                                                        | -25°C ... +125°C<br>400 bar/5000 psi: -10°C ... +125°C                                                                                                              |
|                          | Ambient temperature                                                      | -25°C ... +85°C<br>Cable PVC 22: -5°C ... +60°C<br>Cable PUR 24: -20°C ... +70°C<br>Cable Raychem 08: -20°C ... +100°C                                              |
|                          | Protection <sup>1)</sup>                                                 | IP65, IP67, IP68                                                                                                                                                    |
|                          | Humidity                                                                 | Max. 95 % relative                                                                                                                                                  |
|                          | Vibration                                                                | 4 g (10...2000 Hz)                                                                                                                                                  |
|                          | Shock                                                                    | 50 g / 8 ms                                                                                                                                                         |
| EMC Protection           | Emission                                                                 | EN/IEC 61000-6-3                                                                                                                                                    |
|                          | Immunity                                                                 | EN/IEC 61000-6-2                                                                                                                                                    |
| Mechanical Data          | Sensor (wetted parts)                                                    | Ceramic, Al <sub>2</sub> O <sub>3</sub> (96 %)                                                                                                                      |
|                          | Pressure connection (wetted parts)                                       | 1.4305 (AISI303)                                                                                                                                                    |
|                          | Housing                                                                  | 1.4305 (AISI303)                                                                                                                                                    |
|                          | Sealing                                                                  | FKM 70 Sh, CR, EPDM                                                                                                                                                 |
|                          | Male electrical plug                                                     | See ordering information                                                                                                                                            |
|                          | Weight                                                                   | ~ 110 g                                                                                                                                                             |
|                          | Mounting torque                                                          | 15 ... 20 Nm                                                                                                                                                        |
| Overpressure             | All ranges 2x                                                            |                                                                                                                                                                     |

## Measuring accuracy 0.5 %

