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# Pressure Transmitter

**Type 4069A...**

## for Pressures up to 4000 bar

Robust, cost-effective pressure transmitter for measuring pressure up to 4'000 bar. Suitable for application in hydraulic systems and fuel injection systems of Diesel engines.

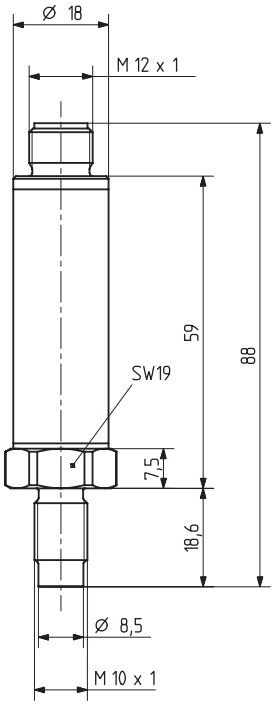
- Good durability
- Good zero point stability
- Output signal 0 …10 V or 4 … 20 mA

### Description

The pressure acts on a corrosion resistant steel diaphragm on the back of which thin film resistors are sputtered, forming a wheatstone-bridge. Thanks to a patented joining technology, the diaphragm is durably connected with the sensor body. Thus the transmitter has an a excellent lifetime.

### Application

The pressure transmitter is designed for operation in an industrial environment and is suitable for monitoring and control of tasks in fuel injection systems (e.g. common rail) and hydraulic systems.







### Technical Data

| | | | |
|---|---|---|---|
| Pressure range | A16 | bar | 0 ... 1'600 |
| | A25 | | 0 ... 2'500 |
| | A40 | | 0 ... 4'000 |
| Overload | | bar | 5000 |
| Linearity | | %FSO | <±0,5 |
| Operating temperature range | | | |
| Sensor front | | °C | 0 ... 150 |
| Electronics | | °C | 0 ... 100 |
| Thermal zero point drift | | %FSO | 1 |
| Thermal sensitivity drift | | %FS | 1 |
| Material | | | |
| Sensor body | | Material | RHF33 |
| Diaphragm | | Material | 17-4PH |
| Weight | | g | 70 |
| Tightening torque | | Nm | 20 |
| Degree of protection | | | IP65 |

**Electronics**

| | | |
|---|---|---|
| **Version A0 with voltage output** | | |
| Power supply | VDC | 16 ... 30 |
| Full scale output | V | 10 ±0,5 % |
| Zero point | V | 0 ±0,05 |
| Connection | | 3-wire |
| **Version A4 with current output** | | |
| Power supply | VDC | 12 ... 30 |
| Full scale output | mA | 20 ±0,5 % |
| Zero point | mA | 4 ±0,1 |
| Connection | | 2-wire |
| Burden resistance | Ω | <360 |
| Cut-off frequency (-3dB) | Hz | 20'000 |

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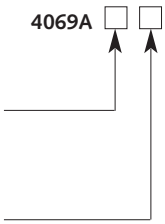
This information corresponds to the current state of knowledge. Kistler reserves the right to make technical changes. Liability for consequential damage resulting from the use of Kistler products is excluded.

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| Included Accessories | Type |
|---|---|
| • Seal | 1100 |
| • Grease | 1063 |

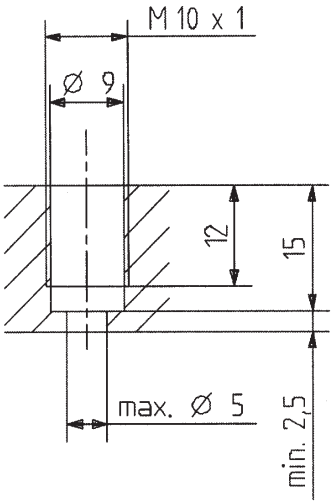
## Ordering Key



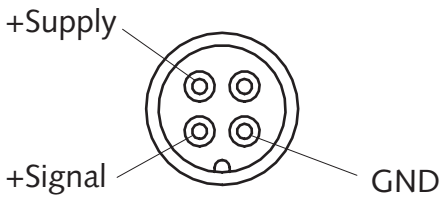

| | |
|---|---|
| 0 ... 1'600 bar | **16** |
| 0 ... 2'500 bar | **25** |
| 0 ... 4'000 bar | **40** |

| | |
|---|---|
| Output 0 ... 10 V | **A0** |
| Output 4 ... 20 mA | **A4** |

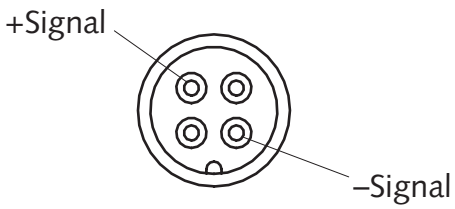
## Mounting Bore




## Pin Allocation of Version A0: 0 ... 10 V




## Pin Allocation of Version A4: 4 ... 20 mA




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