# Pressure sensor with front flush diaphragm piezoresistive or thin film

## Accuracy 0,25 % and 0,5 %

**Standard output 4...20 mA; 2-wire system**
**or 0...20 mA; 3-wire system**
**or 0...5 VDC; 3-wire system**
**or 0...10 VDC; 3-wire system**


### Features
High overload protection
For pasty or crystallizing media
For dynamic or static measurments
Good repeatability

### Applications
Development and laboratory applications
Process engineering
Plant and apparatus design

| Model | SD-40 | SD-42 |
|---|---|---|
| **Accuracy** | 0,5 % full scale value | 0,25 % full scale value |
| **Ranges in bar** | 0...0,1, ...0,25, ...0,4, ...0,6, 1, 1,6, 2,5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 250, 400, 0...600<br>-0,6 / 0, -1 / 0, -1 / +0,6, -1 / +1,5, -1 / +3, -1 / +5, -1 / +9, -1 / +15, -1 / +24 | |
| **Overload limit** | up to 16 bar - 3,5 x<br>from 25 up to 600 bar - 2,0 x | |
| **Sensor element** | from 0,1 to 16 bar piezoresistive, over 25 bar in Thin film | |
| **Repeability** | < 0,05 % full scale value | |
| **Stability per year** | < 0,2 % full scale value in rated conditions | |
| **Case** | CrNi steel | |
| **Wetted parts** | CrNi steel | |
| **Pressur connection** | SW 27, CrNi steel | |
| **Connection thread** | 100 mbar G 1 1/2", from 250 mbar G 1", from 400 mbar G 3/4", from 2,5 bar G 1/2" | |
| **Electrical connection** | plug according to DIN 43650 with junction box | |
| **Power supply** | 10...30 VDC (14...30 VDC for output 0...10 V) | |
| **Power consumption** | Output 4...20 mA: signal currency voltage output 8 mA | |
| **Temp.comp.range** | 0...80 °C | |
| **Temp. influence** | 0,2 % / 10 K, zero point and measuring element | |
| **Response time** | (within 10% to 90% of full scale value) | |
| **Protection type** | IP 65 to EN 60529 /IEC 529 | |
| **Temperatures** | Medium: -30°C up to 100°C, Ambient: -20°C up to 80°C | |
| **Weight** | 0,2 kg | |

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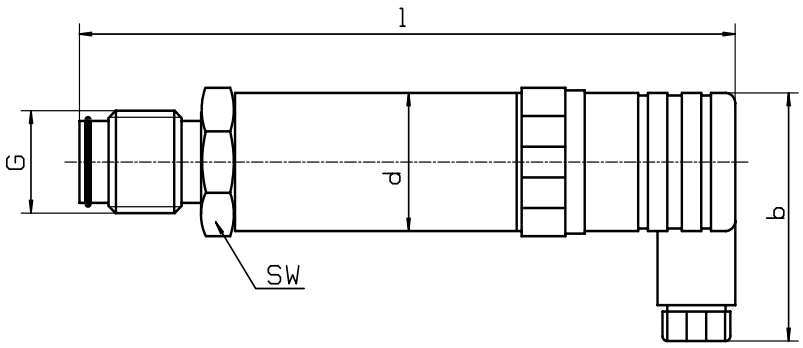
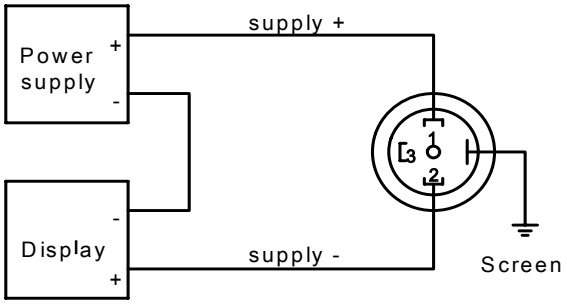
# Dimensions and Design

**with front flush diaphragm**

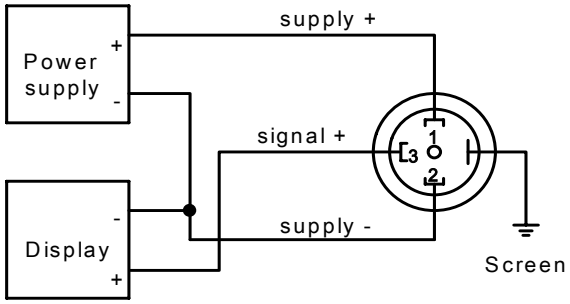



## Electrical connection

**Two-wire system**




**Three - wire system**




| Dimensions in mm | | | | | | |
|---|---|---|---|---|---|---|
| Model | b | | d | l | SW | G |
| SD-40 | 48 | | 27 | 130,5 | 27 | 100 mbar G 1 1/2" |
| | | | | | | from 250 mbar G 1" |
| SD-42 | 48 | | 27 | 130,5 | 27 | from 400 mbar G 3/4" |
| | | | | | | from 2,5 bar G 1/2" |

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