

- Connection with dry and flush ceramic sensor
- Ranges from 500 mbar up to 40 bar
- Accuracy $\leq 0.5\%$
- Compact and rugged design
- Easy on-site configuration via DIP switches
- Analog output: 4...20 mA, 3-wire
- Contact output: DC PNP, max. 200 mA



Pressure switch PR 20

Technical data:

| | |
|----------------------------|--|
| Range: | 0...500 mbar up to 0...40 bar -1...5 bar up to -1...25 bar |
| Analog output: | 4...20 mA, 3-wire |
| Switch output: | DC PNP, max. 200 mA |
| Accuracy: | $\leq \pm 0.5\%$ FS @ 25°C |
| Response time: | 60 ms |
| Power supply: | 19...30V DC |
| Ambient temperature: | -25...85 °C |
| Process temperature: | -25...100 °C |
| Temperatur coefficient: | $\leq \pm 0.03\%$ FS/K (zero) $\leq \pm 0.02\%$ FS/K (span) |
| Long term stability: | $\leq \pm 0.5\%$ FS p. a. |
| Process connection: | G 1/2", 1.4404 (316L) |
| Housing: | stainless steel 1.4301 (304) |
| Sensor: | ceramic AL ₂ O ₃ |
| Protection class: | IP 67 |
| Electrical connection: | cable gland M16x1,5 connector M12x1 |

Nöding

Meßtechnik

Ranges

| Range | Code | Overload (bar) |
|-------------------------------|------|----------------|
| 0...500 mbar / 0...50 kPa (*) | B7 | -0.2/2 |
| 0...600 mbar / 0...60 kPa | 04 | -0.2/2 |
| 0...1 bar / 0... 100 kPa | 05 | -0.4/4 |
| 0...1.6 bar / 0... 160 kPa | 06 | -0.4/4 |
| 0...2 bar / 0... 200 kPa | B3 | -0.4/4 |
| 0...2.5 bar / 0... 250 kPa | 07 | -0.8/10 |
| 0...4 bar / 0... 400 kPa | 08 | -0.8/10 |
| 0...5 bar / 0... 500 kPa | F1 | -0.8/10 |
| 0...6 bar / 0... 600 kPa | 09 | -1/20 |
| 0...10 bar / 0...1 MPa | 10 | -1/40 |
| 0...16 bar / 0...1.6 MPa | 11 | -1/40 |
| 0...20 bar / 0...2 MPa | B5 | -1/40 |
| 0...25 bar / 0...2.5 MPa | 12 | -1/40 |
| 0...40 bar / 0...4.0 MPa (**) | 13 | -1/60 |
| -1...5 bar / -100...500 kPa | D9 | -1/20 |
| -1...9 bar / -100...900 kPa | E1 | -1/40 |
| -1...15 bar / -100...1500 kPa | E2 | -1/40 |
| -1...19 bar / -100...1900 kPa | E3 | -1/40 |
| -1...25 bar / -100...2500 kPa | E7 | -1/40 |

(*) Accuracy 1%
(**) in preparation

Absolutpressure on request

Ordering code

Output Signal

3 4...20 mA 3-wire

Range

Measuring range see table on the left
99 non-standard range

Process connection and material

G G 1/2" DIN 3852 1.4404
S G 1/2" DIN 3852 1.4404
9 others (on request)

Sensor Seal

1 FPM (Viton) Standard
2 NBR (Nitril)
3 EPDM Kautschuk
5 Chemraz 505
9 others (on request)

Housing

1 Stainless steel 1.4301

E-connection

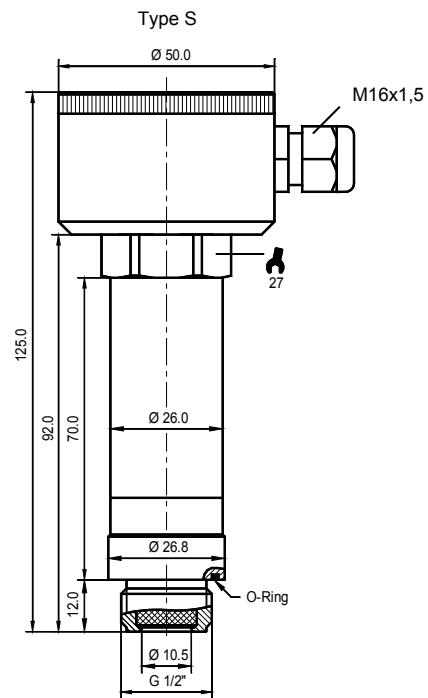
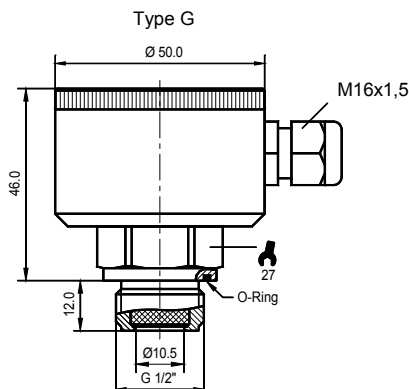
0 M16x1,5
A Connector M12x1, 4-PIN

Options

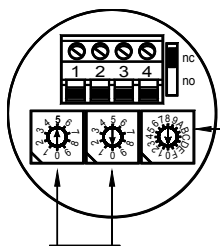
0 without

PR20 - [] - [] - [] - []

Dimension (mm)



Settings



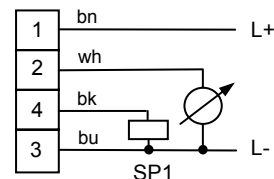
Setpoint modification in %
for example 50%

nc = normally closed
no = normally open

Hysteresis adjustment

| Function | max. | min. |
|----------|------|----------|
| 0 | 0.5% | 8 = 0.5% |
| 1 | 1% | 9 = 1% |
| 2 | 2% | A = 2% |
| 3 | 3% | B = 3% |
| 4 | 4% | C = 4% |
| 5 | 6% | D = 6% |
| 6 | 8% | E = 8% |
| 7 | 10% | F = 10% |

Electrical connections



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