

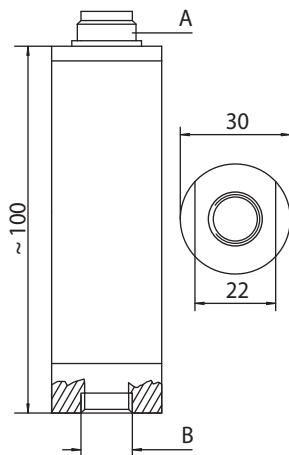
HySense PR 300

6-pole device connector, M16 x 0.75



This pressure sensor is qualified by its fast reactivity of ≥ 1 ms, extremely low noise qualities and high accuracy.

Dimensions

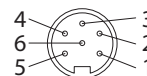


A 6-pole device connector, M16 x 0.75
B ISO 228 G $\frac{1}{4}$ inside thread

Qualities

| | |
|--------------------------------------|-----------------------------------------------------------------------------------------|
| Measuring principle | piezo-resistive (silicon chip in stainless steel casing filled with transmission fluid) |
| Pressure type | relative pressure |
| Output signal | 0 ... 20 mA / 4 ... 20 mA |
| Electrical measuring connector | 6-pole device connector, M16 x 0.75 |
| Sensor identification | Hydrotechnik ISDS |
| Mechanical measuring connector | ISO 228 – G $\frac{1}{4}$ inside thread |
| Sealing material | FKM (pressure measuring cell) |
| Protection type (EN 60529 / IEC 529) | IP 40 |
| Casing material | 1.4104, 1.4301 |
| Membrane material | 1.4435 |
| Tightening torque | 40 Nm (± 5 Nm) |
| Weight | ~ 120 g |

Pin assignment



| | 0 ... 20 mA (three wires) |
|-------|---------------------------|
| Pin 1 | Signal + |
| Pin 2 | - Ub / Signal - / GND |
| Pin 3 | + Ub |
| Pin 4 | free |
| Pin 5 | free |
| Pin 6 | ISDS |

| Measuring range | | Order number |
|-----------------|--------------|------------------|
| bar | MPa | 0 ... 20 mA |
| -1 ... 6 | -0,1 ... 0.6 | 3403-32-S-71.33A |
| 0 ... 60 | 0 ... 6.0 | 3403-21-S-71.33A |
| 0 ... 200 | 0 ... 20 | 3403-10-S-71.33A |
| 0 ... 400 | 0 ... 40 | 3403-15-S-71.33A |
| 0 ... 600 | 0 ... 60 | 3403-18-S-71.33A |

HySense PR 300

6-pole device connector, M16 x 0.75



| Technical data | PR 300 |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| Overload range | 1.5 times measuring range |
| Burst pressure | 2.5 times measuring range |
| Signal type | two wires 4 ... 20 mA, three wires 0 ... 20 mA |
| Supply voltage U_b | 6.5 ... 30 VDC |
| Current consumption | three wires without signal < 10 mA |
| Overvoltage protection | 36 VDC |
| Error limit (of final value) | comprises the influences non-linearity, hysteresis, repeatability, zero-point- and span error |
| ... at +22 °C (room temperature) | $\pm 0.2 \%$ |
| ... at -20 ... +80 °C | $< \pm 3 \%$ |
| Compensation temperature range | -20 ... +80 °C |
| Non-linearity | $> 0.1 \text{ MPa} < \pm 0.25 \%$ of final value |
| Reproduzierbarkeit | $< \pm 0,25 \%$ of final value |
| Hysteresis | $> 0.1 \text{ MPa} < \pm 0.25 \%$ of final value |
| Long-term stability | $< = 0.1 \%$ of measured value |
| Response time | 1 ms (0 ... 98 %) |
| Frequency range | $< = 1 \text{ kHz}$ |
| Isolation resistance | min. 10 M Ω |
| Total resistance | $R_g = U_b / 0.030$ (at output signal 0 ... 20 mA) |
| Load resistance three wires | $R_l = U_b - 6 \text{ V} / 0.020 < = 500 \Omega$ |
| No of load cycles | $> 1 \times 10^6$ |
| Medium temperature | -20 ... +80 °C |
| Environmental temperature | -20 ... +80 °C |
| Storage temperature | -20 ... +85 °C |
| EMC test | EN 50081-2, EN 50082-2 |
| Vibrational stability | 10 g (5 ... 2.000 Hz), IEC 60068-2-6 |
| Shock resistance | 50 g (11 ms), IEC 60068-2-29 |
| Mounting orientation | arbitrary |