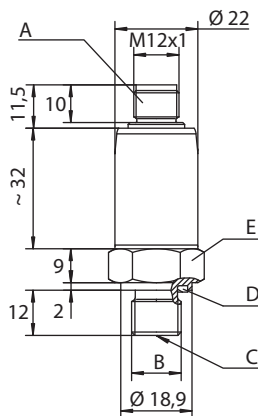




HySense PR 100

6 pole device connector, M16 x 0.75

Dimensions

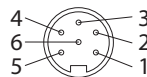


- A 6 pole device connector
- B ISO 228 – G $\frac{1}{4}$ A
- C Restrictor insert \varnothing 0.6 for measuring ranges
> 0 ... 60 bar (0 ... 6.0 MPa)
- D Profile seal ring acc. to DIN 3869, FKM
- E SW 22

Qualities

Measuring principle	piezo-resistive (poly-crystalline silicon thin film structure on high-grade steel membrane)
Pressure type	relative pressure
Output signal	0 ... 20 mA
Electrical measuring connector	6 pole device connector, M16 x 0.75
Mechanical measuring connector	ISO 228 – G $\frac{1}{4}$ A
Sealing material	profile seal ring acc. to DIN 3869, FKM
Protection type (EN 60529 / IEC 529)	IP 40
Casing material	non-corrosive high-grade steel
Membrane material	non-corrosive high-grade steel
Tightening torque	40 Nm (\pm 5 Nm)
Weight	~ 85 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-E5.33
0 ... 60	0 ... 6.0	3403-21-S-E5.33
0 ... 200	0 ... 20	3403-10-S-E5.33
0 ... 400	0 ... 40	3403-15-S-E5.33
0 ... 600	0 ... 60	3403-18-S-E5.33

Other output signals on request.
Measuring ranges > 1000 ... 4000 bar (100 ... 400 MPa) on request.



HySense PR 100

6 pole device connector, M16 x 0.75

Technical data	PR 100
Over load range	1.5 x nominal pressure
Burst pressure	3 x nominal pressure
Signal type	two wires analog (at 4 ... 20 mA), three wires analog (at 0 ... 10 VDC)
Supply voltage U_b	10 ... 30 VDC
Current consumption	6.5 mA
Overvoltage protection	32 VDC
Error limit (of final value)	comprises the influences non-linearity, hysteresis, repeatability, zero-point- and span error
... at +22 °C (room temperature)	$\pm 0.25 \%$
... at -15 ... +85°C	$< \pm 1.0 \%$
... at +85 ... +100°C	$< \pm 2.5 \%$
... at -40 ... -15°C	$< \pm 2.5 \%$
Compensation temperature range	-40 ... +100 °C
Non-linearity	$< \pm 0.4 \%$ of final value
Reproducibility	$< \pm 0.1 \%$ of final value
Hysteresis	$< \pm 0.1 \%$ of final value
Long-term stability	$< \pm 0.1 \%$ of final value/year
Response time	≤ 1 ms (10 ... 90 %)
Frequency range	≤ 1 kHz
Isolation resistance	min. 100 M Ω
Total resistance	$R_g = (U_b - 10 \text{ V}) / 10 \text{ mA}$
No of load cycles	$> 1 \times 10^7$
Medium temperature	-40 ... +125 °C
Environmental temperature	-40 ... +105 °C (short term +125 °C)
Storage temperature	-40 ... +125 °C
EMC test	EN 50081-2, EN 50082-2
Vibrational stability	5 mm 10 ... 32 Hz, 20 g 32 ... 500 Hz, DIN EN 60068-2-6
Shock resistance	50 g (11 ms half sine)
Mounting orientation	arbitrary