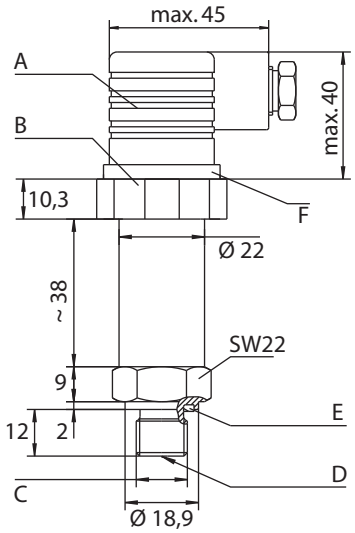
HySense PR 140

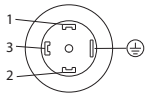
4 pole device connector, DIN EN 175301-803 type A, Pg9

Dimensions



A Contact box, Typ EN 175301-803, type A
B Device connector SW 33,5
C ISO 228 – G¼ A
D Restrictor insert Ø 0.6 for measuring ranges > 0 ... 60 bar (0 ... 6.0 MPa)
E Profile seal acc. to DIN 3869, FKM
F Profile seal

Qualities	
Measuring principle	piezo-resistive (poly-cristalline silicon thin film structure on high-grade steel membrane)
Pressure type	relative pressure
Output signal	4 ... 20 mA / 0 ... 10 VDC
Electrical measuring connector	4 pole device connector, DIN EN 175301-803, type A, Pg9
Mechanical connection thread	ISO 228 – G ¼ A
Sealing material	profile seal ring acc. to DIN 3869, FKM
Protection type (EN 60529 / IEC 529)	IP 65 (with connecting cable Ø 6 ... 8 mm)
Casing material	non-corrosive high-grade steel
Membrane material	non-corrosive high-grade steel
Tightening torque	40 Nm (± 5 Nm)
Weight	~ 117 g

Pin assignment	4 ... 20 mA (two wires)	0 ... 10 V (three wires)
	1 + Ub / signal +	1 + Ub
	2 – Ub / signal –	2 – Ub / signal – / GND
	3 free	3 Signal +

Measuring ranges		Order number	
bar	MPa	4 ... 20 mA	0 ... 10 V
-1 ... 6	-0.1 ... 0.6	3403-32-D1.37S	3403-32-D1.39S
0 ... 10	0 ... 1.0	3403-26-D1.37S	3403-26-D1.39S
0 ... 25	0 ... 2.5	3403-40-D1.37S	3403-40-D1.39S
0 ... 60	0 ... 6.0	3403-21-D1.37S	3403-21-D1.39S
0 ... 100	0 ... 10	3403-16-D1.37S	3403-16-D1.39S
0 ... 250	0 ... 25	3403-17-D1.37S	3403-17-D1.39S
0 ... 400	0 ... 40	3403-15-D1.37S	3403-15-D1.39S
0 ... 600	0 ... 60	3403-18-D1.37S	3403-18-D1.39S
0 ... 1.000	0 ... 100	3403-29-D1.37S	3403-29-D1.39S

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

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HySense PR 140

4 pole device connector, DIN EN 175301-803 type A, Pg9

Technical data	PR 140
Overload range	1.5 x nominal pressure
Burst pressure	3 x nominal pressure
Signal type	Two wire analog (4 ... 20 mA), three wire analog (0 ... 10 VDC)
Supply voltage Ub	
... at 4 ... 20 mA	10 ... 30 VDC
... at 0 ... 10 VDC	12 ... 32 VDC
Current consumption	6.5 mA
Overvoltage protection	32 VDC
Error limit (of final value)	comprises the influences non-linearity, hysterese, repeatability, zero-point- and span error
... at +22 °C (room temperature)	± 0.5 %
... at -15 ... +85°C	< ± 1.0 %
... at +85 ... +100°C	< ± 2.5 %
... at -40 ... -15°C	< ± 2.5 %
Compensation temperature range	-40 ... +100 °C
Non-linearity	< ± 0.4 % of final value
Reproducability	< ± 0.1 % of final value
Hysterese	< ± 0.1 % of final value
Long-term stability	< ± 0.1 % of final value/year
Response time	< = 1 ms (10 ... 90 %)
Frequency range	< = 1 kHz
Isolation resistance	min. 100 MOhm
Total resistance	R_G = (Ub -10 V) / 20 mA (at output signal 4 ... 20 mA)
Load resistance	R_L = > 5 kOhm (at output signal 0 ... 10 VDC)
Number of load cycles	> 1 x 10^7
Medium temperature	-40 ... +125 °C
Environmental temperature	-40 ... +105 °C (short term +125 °C)
Storage temperature	-40 ... +125 °C
EMV 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 stability	50 g (11 ms half-sine)
Mounting orientation	arbitrary

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