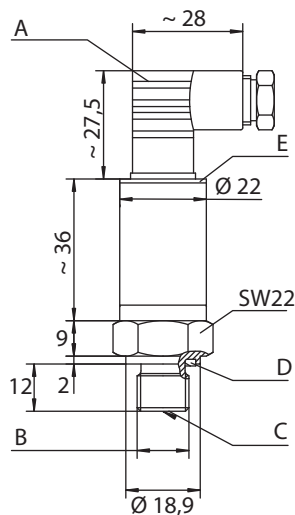


HySense PR 150

4 pole device connector, DIN EN 175301-803 type C, Pg7



Dimensions



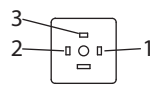
- A 4 pole device connector, Typ EN 175301-803, type C
 B ISO 228 – G $\frac{1}{4}$ A
 C Restrictor insert Ø 0.6 for measuring ranges > 0 ... 60 bar (0 ... 6.0 MPa)
 D Profile seal acc. to DIN 3869, FKM
 E Profile seal

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 C, Pg7
Mechanical connection thread	ISO 228 – G $\frac{1}{4}$ A
Sealing material	profile seal ring acc. to DIN 3869, FKM
Protection type (EN 60529 / IEC 529)	IP 65 (with connecting cable Ø 4,5 ... 6 mm)
Casing material	non-corrosive high-grade steel
Membrane material	non-corrosive high-grade steel
Tightening torque	40 Nm (\pm 5 Nm)
Weight	~ 97 g

Pin assignment

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



Measuring ranges		Order number	
bar	MPa	4 ... 20 mA	0 ... 10 V
-1 ... 6	-0.1 ... 0.6	3403-32-D5.37S	3403-32-D5.39S
0 ... 10	0 ... 1.0	3403-26-D5.37S	3403-26-D5.39S
0 ... 25	0 ... 2.5	3403-40-D5.37S	3403-40-D5.39S
0 ... 60	0 ... 6.0	3403-21-D5.37S	3403-21-D5.39S
0 ... 100	0 ... 10	3403-16-D5.37S	3403-16-D5.39S
0 ... 250	0 ... 25	3403-17-D5.37S	3403-17-D5.39S
0 ... 400	0 ... 40	3403-15-D5.37S	3403-15-D5.39S
0 ... 600	0 ... 60	3403-18-D5.37S	3403-18-D5.39S
0 ... 1.000	0 ... 100	3403-29-D5.37S	3403-29-D5.39S

Further output signals on request.

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

HySense PR 150

4 pole device connector, DIN EN 175301-803 type C, Pg7



Technical data	PR 150
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 U_b	
... 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, hysteresis, repeatability, zero-point- and span error
... at +22 °C (room temperature)	$\pm 0.5 \%$
... 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	$\leq 1 \text{ ms}$ (10 ... 90 %)
Frequency range	$\leq 1 \text{ kHz}$
Isolation resistance	min. 100 M Ω
Total resistance	$R_G = (U_b - 10 \text{ V}) / 20 \text{ mA}$ (at output signal 4 ... 20 mA)
Load resistance	$R_L = > 5 \text{ k}\Omega$ (at output signal 0 ... 10 VDC)
Number 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
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