



# **UK** Flowtechnik

Specialists in flow metering, pumps, couplings  
and process measurement equipment

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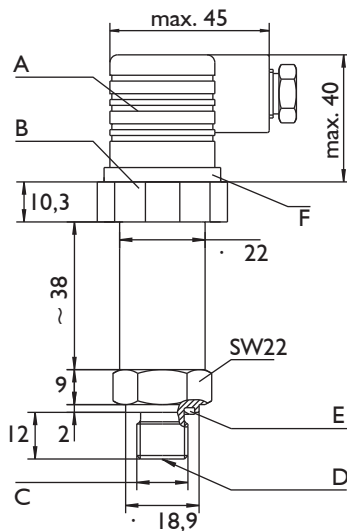
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## HySense PRI 40

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

### Dimensions



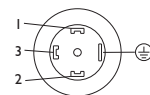
- A Contact box, Typ EN 175301-803, type A
- B Device connector SW 33,5
- C ISO 228 - G1/4 A
- D Restrictor insert · 0.6 for measuring ranges > 0 ... 60 bar (0 ... 6.0 MPa)
- E Profile seal acc. to DIN 3869, FKM
- F Profile seal

### 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 1/4A
Sealing material	profile seal ring acc. to DIN 3869, FKM
Protection type (EN 60529 / IEC 529)	IP 65 (with connecting cable · 6 ... 8 mm)
Casing material	non-corrosive high-grade stainless steel
Membrane material	non-corrosive high-grade 17-4PH stainless 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 +	+ Ub
2	- Ub / signal -	-Ub / signal - / GND
3	free	Signal +

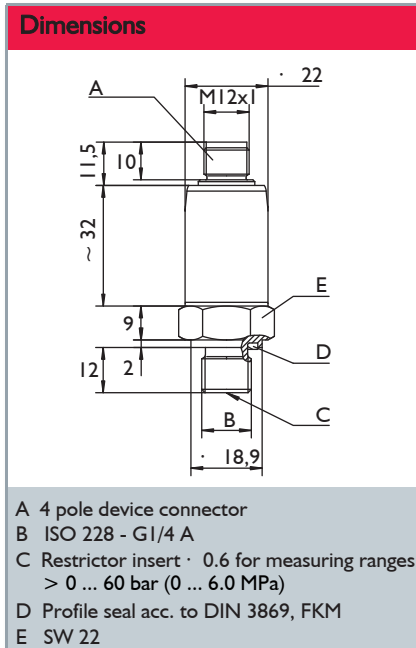
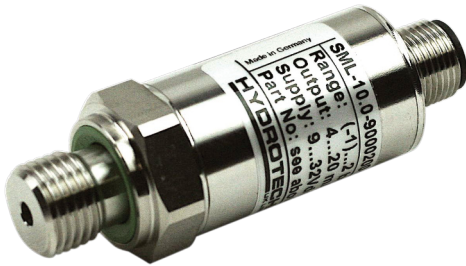


Measuring ranges		Order number	
bar	MPa	4 ... 20 mA	0 ... 10 V
-1 ... 6	-0.1 ... 0.6	3403-32-DI.37S	3403-32-DI.39S
0 ... 10	0 ... 1.0	3403-26-DI.37S	3403-26-DI.39S
0 ... 25	0 ... 2.5	3403-40-DI.37S	3403-40-DI.39S
0 ... 60	0 ... 6.0	3403-21-DI.37S	3403-21-DI.39S
0 ... 100	0 ... 10	3403-16-DI.37S	3403-16-DI.39S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


Common technical data on last page. Further output signals on request. Measuring ranges > 1000 ... 5000 bar (100 ... 500 MPa) on request.

## HySense PRI 30

4 pole electrical connector, M12x1



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, M12 x 1
Mechanical connection thread	ISO 228 - G 1/4 A
Sealing material	profile seal ring acc. to DIN 3869, FKM
Protection type (EN 60529 / IEC 529)	IP 67 (when connector is screwed)
Casing material	non-corrosive high-grade stainless steel
Membrane material	non-corrosive high-grade 17-4PH stainless steel
Tightening torque	40 Nm (+/-5 Nm)
Weight	~ 85 g

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

Measuring range		Order number	
bar	MPa	4 ... 20 mA	0 ... 10 V
-1 ... 6	-0.1 ... 0.6	3403-32-15.37S	3403-32-15.39S
0 ... 10	0 ... 1.0	3403-26-15.37S	3403-26-15.39S
0 ... 25	0 ... 2.5	3403-40-15.37S	3403-40-15.39S
0 ... 60	0 ... 6.0	3403-21-15.37S	3403-21-15.39S
0 ... 100	0 ... 10	3403-16-15.37S	3403-16-15.39S
0 ... 250	0 ... 25	3403-17-15.37S	3403-17-15.39S
0 ... 400	0 ... 40	3403-15-15.37S	3403-15-15.39S
0 ... 600	0 ... 60	3403-18-15.37S	3403-18-15.39S
0 ... 1.000	0 ... 100	3403-29-15.37S	3403-29-15.39S

Common technical data on next page. Further output signals on request. Measuring ranges > 1000 ... 5000 bar (100 ... 500 MPa) on request.

### Common technical data

The technical data shown here is valid for the sensors in the HySense® PR Ixx range, mentioned on the previous pages:

Technical data	PRI30 / PRI40 / PRI50 / PRI90	PRI55
Overload range	1.5 x nominal pressure	
Burst pressure	3 x nominal pressure	
Signal type	Two wire analogue (4 ... 20 mA), three wire analogue (0 ... 10 VDC)	
Supply voltage $U_b$		
... at 4 ... 20 mA	10 ... 30 VDC	30 V
... at 0 ... 10 VDC	12 ... 32 VDC	-
Current consumption	6.5 mA	50 mA
Overvoltage protection	32 VDC	
Error limit (of final value)	comprises non-linearity, hysteresis, 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 %	
Temperature error (-20 ... +80 °C)	< +/- 0,03 %/°C	
Compensation temperature range	-40 ... +100 °C	
Non-linearity	< +/- 0.4 % of final value	
Reproducibility	< +/- 0.1 % of final value	
Hysteresis	< +/- 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 MΩ	
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	> $10 \times 10^6$	
Medium temperature	-40 ... +125 °C	
Environmental temperature	-40 ... +105 °C (short term +125 °C)	-40 ... +85 °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	Universal	