

EX Pressure Transmitter

- Pressure ranges from 5 to 30,000psi
- ATEX, IECEx, UKEX certified
- II 1G Ex ia IIC T4/T6 Ga
- II 1G Ex ia IIC T4/T6 Ga
- II 1D Ex ia IIIC T200 320°F Da
- I M1 Ex ia I Ma
- II 1/2G Ex ia IIC T4/T6 Ga/Gb
- Optional hydrogen-compatible sensor
- EC79/2009 certified



About

The P30 is an intrinsically safe pressure transmitter based on an all-welded stainless steel sensor technology. It offers long-term stability and high repeatability while delivering accurate measurement over a wide temperature range. The P30 is designed to withstand harsh applications such as earth moving equipment, petroleum extraction, paper and pulp production and much more.

Applications

- ✓ Ex-Zones 0, 1, 2 (gas)
- ✓ Ex-Zones 20, 21, 22 (dust) and mining
- ✓ Hydrogen
- ✓ Gas & Oil
- ✓ Marine, ship building
- ✓ Paper & Pulp
- ✓ Chemicals

Build Your Part Number

Series P30

Example: P30GA185C6B99F1D4

Series
P30

Pressure Reference - select one
G Gauge

Output Signal - select one	Supply
A 4 ... 20 mA	24 (9 ... 32) VDC

Pressure Range (psi) - select one	Over Pressure (psi)	Burst Pressure (psi)
18 0 ... 5	18	350
19 0 ... 10	25	350
21 0 ... 15	30	350
22 0 ... 20	30	350
23 0 ... 25	50	350
24 0 ... 30	30	720
25 0 ... 50	120	860
26 0 ... 100	170	1450
27 0 ... 150	290	2900
29 0 ... 250	460	2900
32 0 ... 400	730	4350
33 0 ... 500	1160	4350
34 0 ... 1000	1740	5800
35 0 ... 1500	2900	7250
36 0 ... 2000	4640	10850
37 0 ... 3000	7250	14500
38 0 ... 5000	11600	21750
39 0 ... 7500	14500	29000
41 0 ... 10000	14500	29000
42 0 ... 20000	25000	45000
43 0 ... 30000	45000	60000
XX Use "XX" for custom ranges (Ex: 0 ... 550 psi) Please inform range below part number		

Process Connection - select one; see diagrams page 6
5C 1/4" NPT male
5N G1/4" male
5P G1/4" female
5Q G1/2" male

Electrical Connection - select one; see diagrams page 7
6B DIN 43650-A
6D Male electrical connector M12x1, 5-pole
6J MIL-C 26482, 6-pole
6Z 1.5 Meter Raychem shielded FDR25 cable with flying leads (standard color-coding pin-out, see page 6)
7A 3 Meter Raychem shielded FDR25 cable with flying leads (standard color-coding pin-out, see page 6)
7B 5 Meter Raychem shielded FDR25 cable with flying leads (standard color-coding pin-out, see page 6)

Build Your Part Number

Series P30

Example: P30GA185C6B99F1D4
Pin-Out Options - see wiring diagrams page 5
99 Standard

Wetted Sealing Material - select only for process connections 5N & 5Q; for all others, leave blank
F1 Seal FKM, -0.4°F ... +257°F

E1 Seal EPDM, -40°F ... +257°F

Removeable Pressure Peak Damping Element - optional; if not desired, leave blank
D4 0.4 mm - best for viscosities similar to air, water and light oils

D1 1.0 mm - best for viscosities similar to heavy oils

Mating Electrical Connection Assembly - optional; will be quoted as a separate line item

Part #		Part #	
PSE0	M12x1, 5 pole - straight with cable gland (field wireable) metal		
PSE1	M12x1, 5 pole - straight with cable gland (field wireable) (not for zone 0(gas))	PSE14	DIN 43650-A with cable gland (field wireable)
PSE2	M12x1, 5 pole - straight with 1 meter PUR cable (not for zone 0(gas))	PSE15	DIN 43650-A with 1 meter PUR cable
PSE3	M12x1, 5 pole - straight with 3 meter PUR cable (not for zone 0(gas))	PSE16	DIN 43650-A with 3 meter PUR cable
PSE4	M12x1, 5 pole - straight with 1 meter PUR shielded cable (not for zone 0(gas))	PSE17	DIN 43650-A with 1 meter PUR shielded cable
PSE5	M12x1, 5 pole - straight with 3 meter PUR shielded cable (not for zone 0(gas))	PSE18	DIN 43650-A with 3 meter PUR shielded cable
PSE6	M12x1, 5 pole - 90° (field wireable) (not for zone 0(gas))	PSE19	DIN 43650-A with 1/2" NPT female & cable gland (field wireable)
PSE7	M12x1, 5 pole - 90° with 1 meter PUR shielded cable (not for zone 0(gas))	PSE28	MIL-C 26482, 6-pole, metal (field wireable)
PSE8	M12x1, 5 pole - 90° with 3 meter PUR shielded cable (not for zone 0(gas))		

Protection

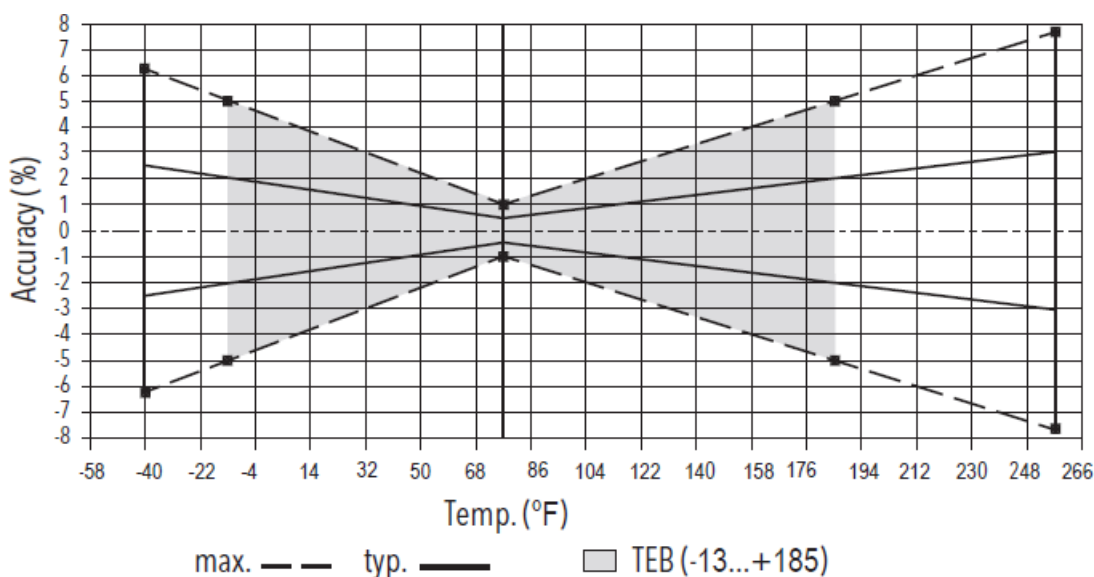
Ex Zones	Markings	Additional Specifications
0, 1, 2, 20, 21, 22, M1, M2	 II 1 G Ex ia IIC T4/T6 Ga II 1 D Ex ia IIIC T ₂₀₀ 160° Da I M 1 Ex ia I Ma	Internal capacity (Ci): ≤ 23nF Internal inductance: (Li): < 10μH Resistance of insulation: > 10MΩ, 500 VDC Current limiting output signal: 4...20mA: ca. 24 mA (Overload)
1, 2, 20, 21, 22	 II 2 G Ex ia IIC T4/T6 Gb II 1D Ex IIIC T ₂₀₀ 160° Da	Internal capacity (Ci): ≤ 23nF Internal inductance: (Li): < 10μH Resistance of insulation: > 10MΩ, 500 VDC Current limiting output signal: 4...20mA: ca. 24 mA (Overload)

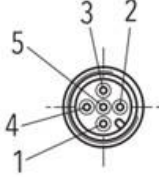
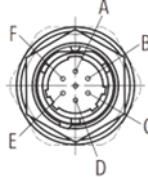
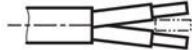
Technical Parameters

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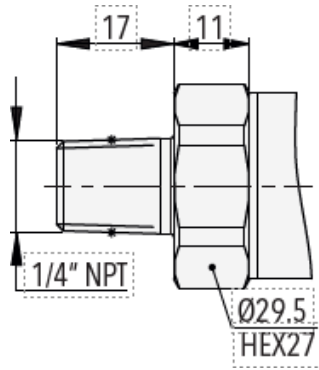
Accuracy	TEB (Total Error Band) from -13...+185°F	> 15 psi +/- 2.0% FS typical	≤ 15psi +/- 1.0% FS typical
	NLH (nonlinearity & hysteresis) at 77°F (BSL)	> 15 psi +/- 0.2% FS typical	≤ 15psi +/- 0.1% FS typical
	TC zero point and span	> 15 psi +/- 0.03% FS typical	≤ 15psi +/- 0.01% FS typical
	Long term stability 1 year at 77°F	> 15 psi +/- 0.2% FS typical	≤ 15psi +/- 0.2% FS typical
	Rise time	Typical 1 ms / 10 ...90% nominal pressure	
Electrical	Power-on delay	Max. 1.5 s	
Environmental	Media temperature	Max. - 40°F ... +248°F	
	Ambient temperature	Max. - 40°F ... +248°F	
	Protection	IP65: DIN43650A IP67: M12, MIL-C & fixed cable	
	Humidity	Max. 95 % relative	
	Vibration	10 g (50...2000 Hz)	
	Shock	50 g / 3 ms	
EMC	Emission	IEC 61000-6-4	
	Immunity	IEC 61000-6-2	
Mechanical	Wetted parts (sensor)	1.4542 (AISI630), optional hydrogen-compatible Steel	
	Wetted parts (process connection)	Pressure ranges ≤ 232 psi: 1.4542 Pressure ranges > 232 psi: 1.4404 Optional hydrogen-compatible steel	
	Housing	1.4301 (AISI304)	
	Sealing	FKM/EPDM	
	Weight	165 g	
	Installation torque	25 Nm	

Accuracy Class 0.5%

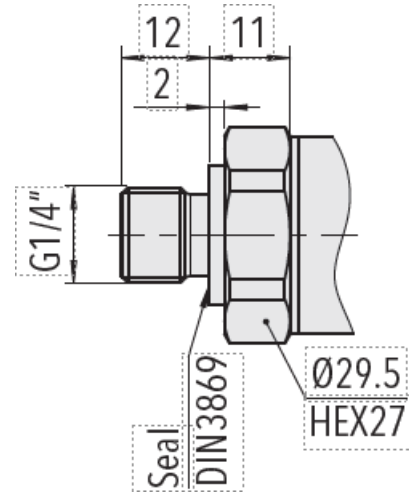


		Protection / Electrical Connection			
		IP65 1) 2)	IP67 1) 2)	IP67 1) 2)	IP68 max, 3m
		Industrial Standard EN175301-803A 6B 	M12x1 4-pole 6D 	MIL-C 26482 6J 	Cable2) FDR Raychem 6Z, 7A, 7B 
Output Signal		99	99	99	99
	V+ (supply voltage)	2	4	A	Red
	→ (output signal)	1	1	C	Black
	GRD (common)	4	5	F	Green

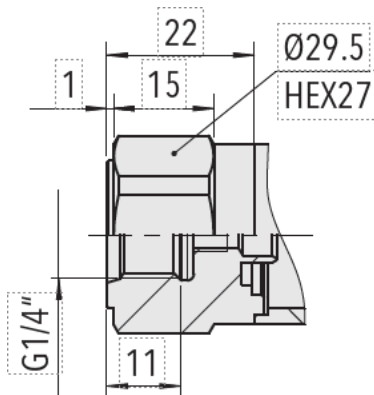
Process Connection Dimensions



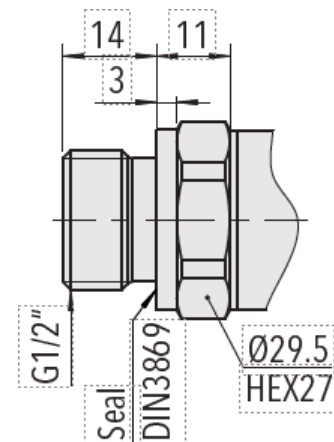
1/4" NPT male



G1/4" male

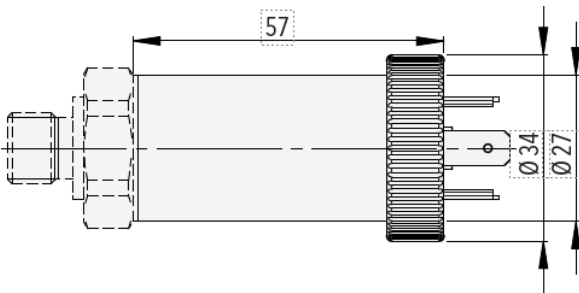


G1/4" female

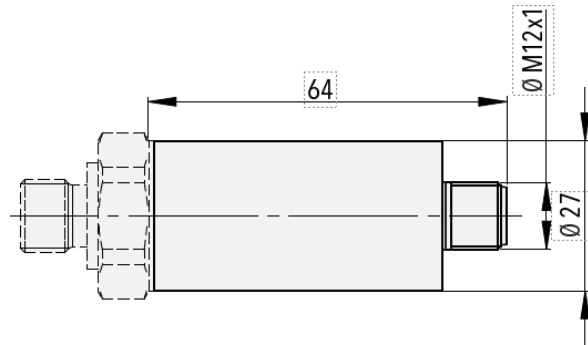


G1/2" male

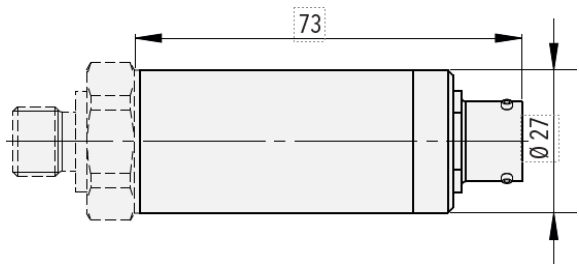
Electrical Connection Dimensions



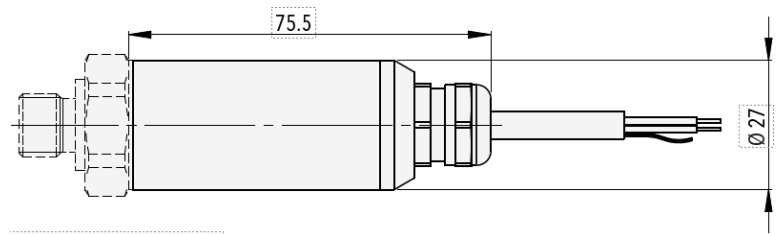
Industrial Standard EN175301-803A



M12x1 5-pole

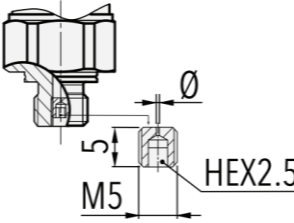


MIL-C 26482



EPD Raychem Cable

Removable Pressure Peak Damping Element

Dimensions	Diameter Restrictions	Ordering Code
	0.4 mm	D4
	1.0 mm	D1



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