

# Test & Measurement Grade

- Extreme accuracy, linearity, hysteresis and repeatability
- Warm calibrated
- Gauge and absolute
- Down to 0.1% NLH @ 77F (BSL) best straight line
- Compact form factor
- From -40 to +257F



## About

The P11 is an ultra-high accuracy transmitter designed for test & measurement grade performance. Commonly used for high-performance data acquisition and validation. Able to withstand harsh mobile hydraulic applications such as AG equipment and more.

## Applications

- ✓ Test benches
- ✓ Dynamometers
- ✓ Laboratories
- ✓ Powertrain development and validation
- ✓ Data acquisition
- ✓ Vehicle diagnostics

# Build Your Part Number

## Series P11

Example: P11G1A255C6A67D1

Series	
P11	

Pressure Reference - select one	
G	Gauge
A	Absolute

High Accuracy Class - select one	
1	0.15% Full scale at 77°F
2	0.1% Full scale at 77°F

Output Signal - select one		Supply
A	4 ... 20 mA	24 (9 ... 32) VDC
B	0 ... 5 VDC	24 (9 ... 32) VDC
C	0 ... 10 VDC	24 (15 ... 32) VDC
D	0.5 ... 4.5 VDC ratiometric	5 (4.75 ... 5.25) VDC
F	1 ... 6 VDC	24 (9 ... 32) VDC

Pressure Range (psi) - select one	Over Pressure (psi)	Burst Pressure (psi)	
25	0 ... 50	100	850
26	0 ... 100	200	1450
27	0 ... 150	300	2500
28	0 ... 200	400	2500
29	0 ... 250	500	2500
31	0 ... 300	600	4000
32	0 ... 400	800	4000
33	0 ... 500	1000	4000
34	0 ... 1000	2000	5000
35	0 ... 1500	3000	7000
36	0 ... 2000	4000	10000
37	0 ... 3000	6000	14500
38	0 ... 5000	10000	21750
39	0 ... 7500	15000	29000
XX	Use "XX" for custom ranges (Ex: 0 ... 550 psi) Please inform range below part number		

Process Connection - select one; see diagrams page 7	
5C	1/4" NPT male
5D	1/4" NPT female
5G	7/16"-20UNF-2A male, SAE J1926-2
5H	7/16"-20UNF female, SAE J512 with valve opener
5K	7/16"-20 UNF male, DIN3866
5L	9/16"-18UNF-2A male, SAE J1926-2
5N	G1/4" male

# Build Your Part Number

## Series P11

Example: P11G1A255C6A67D1

### Electrical Connection – select one; see diagrams page 6

<b>6A</b>	DIN 43650-C micro-mini (9.4mm)	
<b>6C</b>	Male electrical connector M12x1, 4-pole	
<b>6D</b>	Male electrical connector M12x1, 5-pole	
<b>6J</b>	MIL-C 26482, 6-pole	
<b>6X</b>	0.5 Meter EPD Raychem shielded FDR25 cable with flying leads	(standard color-coding pin-out, see page 5)
<b>6Y</b>	1 Meter EPD Raychem shielded FDR25 cable with flying leads	(standard color-coding pin-out, see page 5)
<b>6Z</b>	2 Meter EPD Raychem shielded FDR25 cable with flying leads	(standard color-coding pin-out, see page 5)

### Pin-Out Options – select one; see wiring diagrams page 5

<b>99</b>	Standard
<b>67</b>	Longer lead time and upcharges may apply
<b>73</b>	Longer lead time and upcharges may apply

### Removeable Pressure Peak Damping Element - optional; not available for process connections 5H and 5K; if not desired, leave blank

<b>D1</b>	1.0 mm - best for viscosities similar to heavy oils
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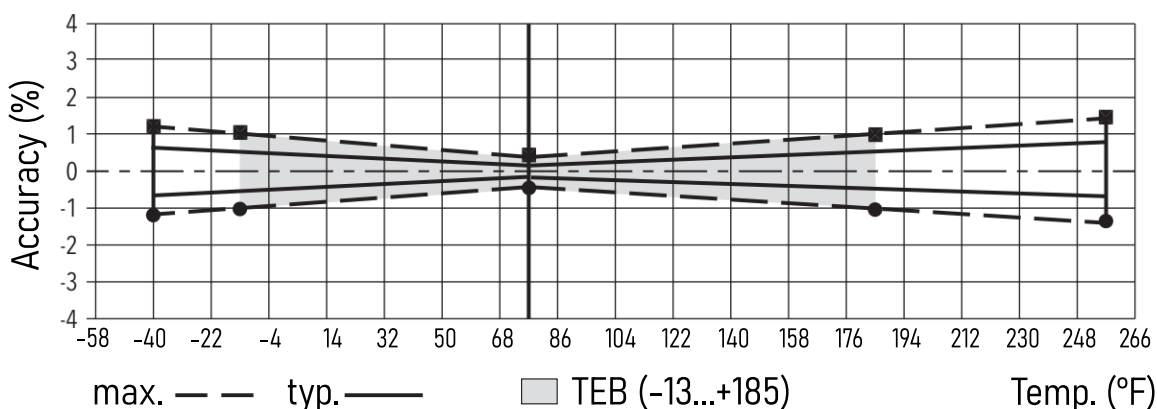
### Mating Electrical Connection Assembly – optional; will be quoted as a separate line item

Part#	
<b>PSE1</b>	M12x1, 5 pole – straight with cable gland (field wireable)
<b>PSE2</b>	M12x1, 5 pole - straight with 1 meter PUR cable
<b>PSE3</b>	M12x1, 5 pole - straight with 3 meter PUR cable
<b>PSE4</b>	M12x1, 5 pole - straight with 1 meter PUR shielded cable
<b>PSE5</b>	M12x1, 5 pole - straight with 3 meter PUR shielded cable
<b>PSE6</b>	M12x1, 5 pole - 90° (field wireable)
<b>PSE7</b>	M12x1, 5 pole - 90° with 1 meter PUR shielded cable
<b>PSE8</b>	M12x1, 5 pole - 90° with 3 meter PUR shielded cable
<b>PSE9</b>	DIN 43650-C micro-mini (9.4mm) with cable gland (field wireable)
<b>PSE10</b>	DIN 43650-C micro-mini (9.4mm) with 1 meter PUR cable
<b>PSE11</b>	DIN 43650-C micro-mini (9.4mm) with 3 meter PUR cable
<b>PSE12</b>	DIN 43650-C micro-mini (9.4mm) with 1 meter PUR shielded cable
<b>PSE13</b>	DIN 43650-C micro-mini (9.4mm) with 3 meter PUR shielded cable


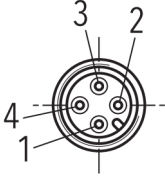
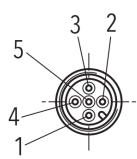
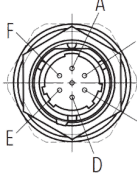

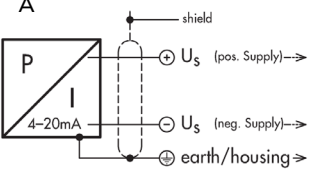
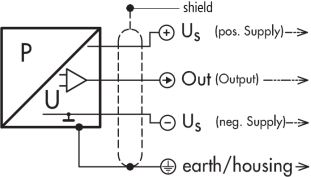
# Technical Parameters

Technical Parameters		
Accuracy	At 77°F (Accuracy class option 1)	± 0.15% FS typical
	At 77°F (Accuracy class of 2)	± 0.1% FS typical
	TEB (Total Error Band) -13...+185°F (Accuracy class option 1)	± 0.5% FS typical
	TEB (Total Error Band) 0...+150°F (Accuracy class option 2)	± 0.4% FS typical
	NLH (nonlinearity & hysteresis) at 77°F (BSL)	± 0.1%
	TC zero point and span	± 0.002%
	Long term stability 1 year at 77°F	± 0.1%
	Rise time	1 ms typical
Electrical	Power-on delay	1 s
	Media temperature	-40°F ... +257°F
Environmental	Ambient temperature	-40°F ... +257°F
	Protection	IP65, IP67
	Humidity	Max. 95% relative
	Vibration	40 g (20...2000 Hz)
	Shock	100 g / 11 ms
	EMC	Emission
	Immunity	EN/IEC 61000-6-2
Mechanical	Wetted parts (sensor)	1.4542 (AISI630)
	Wetted parts (process connection)	≤ 3,600 psig = 1.4542 (AISI630) / > 3,600 psig = 1.4301 (AISI304)
	Housing	1.4301 (AISI304)
	Sealing	FKM 70 Sh
	Weight	~ 50 g
	Installation torque	25 Nm

## Measuring Accuracy 0.15%

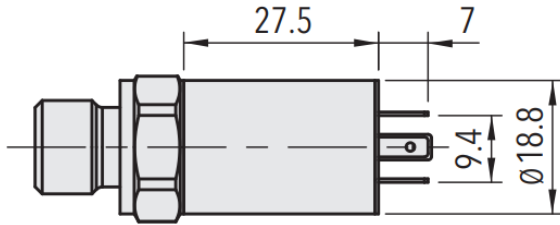


# Pin-Out Options

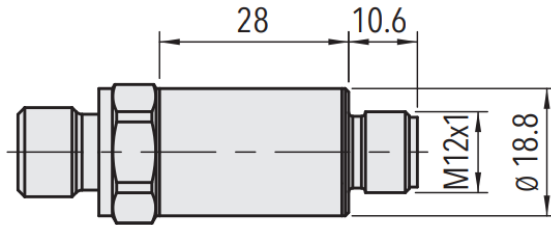
		Protection / Electrical Connection					
		IP65 <sup>1) 2)</sup>	IP67 <sup>1) 2)</sup>		IP67 <sup>1) 2)</sup>	IP67 <sup>2)</sup>	
		Industrial Standard Contact Distance 9.4 mm	M12x1 4-pole	M12x1 5-pole	MIL-C 26482	Cable	
		6A	6C	6D	6J	08	
							
Output Signal	A		99	99	99	99	
	B,C,D,E		99	99	67	99	73
			2	1	4	A	Red
			1	3	1	B	Black
			4	4	5	E	
			1	1	2	A	Red
			2	2	4	B	Green
			3	3	3	C/D	Black
			4	4	5	E	

- 1) Provided female connector is mounted according to instructions
- 2) Ventilation via male electric plug/cable end

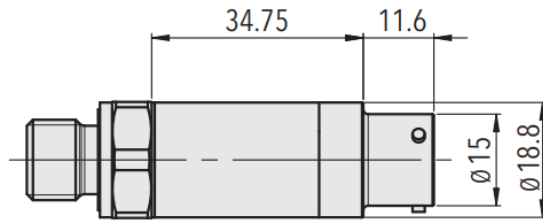
# Electrical Connection Dimensions



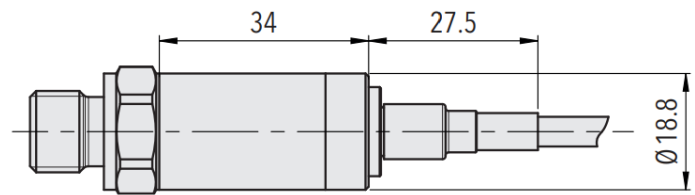
DIN 43650-C micro-mini (9.4mm)



Male electrical connector M12x1, 4-pole / 5-pole

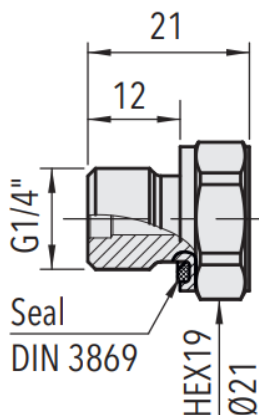


MIL-C 26482, 6-pole

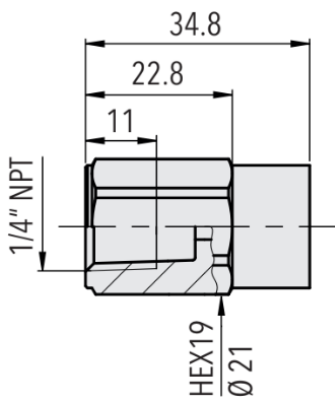


EPD Raychem shielded FDR25 cable with flying leads

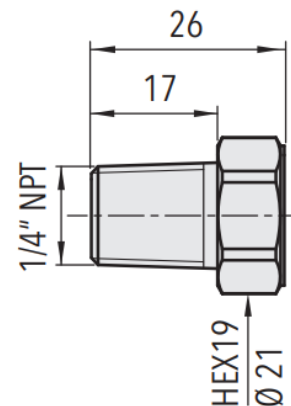
# Process Connection Dimensions



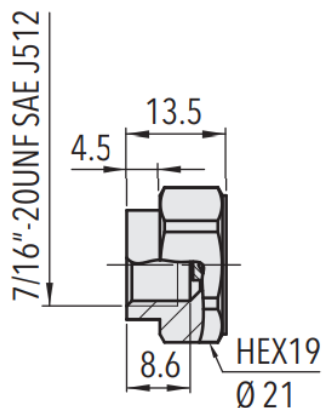
G1/4" male



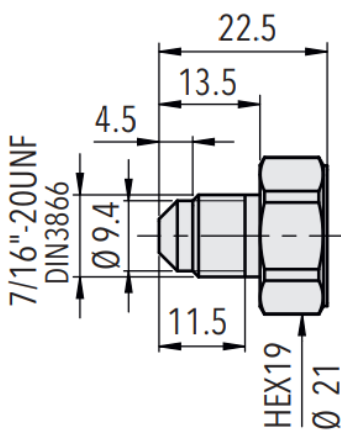
1/4" NPT female



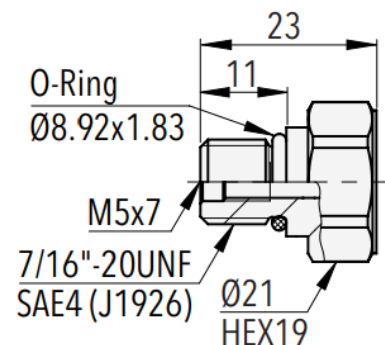
1/4" NPT male



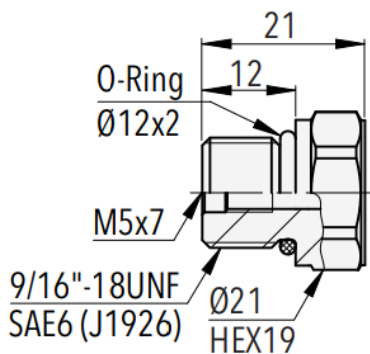
7/16"-20UNF female,  
SAE J512 with valve  
opener



7/16"-20 UNF male,  
DIN3866

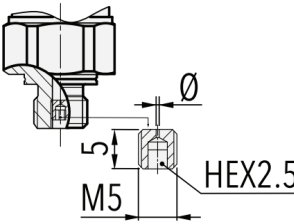


7/16"-20UNF-2A  
male, SAE J1926-2



9/16"-18UNF-2A male,  
SAE J1926-2

# Removable Pressure Peak Damping Element

Dimensions	Diameter Restrictions	Ordering Code
	1.0 mm	D1



# PAQUIN

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