

SPECIFICATIONS

- High Accuracy
- Compact
- Variety of Pressure Ports and Electrical Configurations
- Optional damper
- CE Compliant and Weatherproof
- Gage, Compound
- High Accuracy

FEATURES

- Heavy Industrial CE Tested
- Integral Pressure Cavity, No leakage
- Reverse Polarity Protection on Input
- Short Circuit Protection on Output
- Up to $\pm 0.25\%$ Accuracy
- Up to $\pm 1\%$ Total Error Band
- Compact Outline
- -40°C to $+120^{\circ}\text{C}$ Operating Temperature
- Weatherproof

APPLICATIONS

- Industrial Process Control and Monitoring
- Advanced HVAC Systems
- Refrigeration Systems
- Automotive Test Stands
- Off-Road Vehicles
- Pumps and Compressors
- Hydraulic/Pneumatic Systems
- Agriculture Equipment
- Energy Generation and Management

STANDARD RANGES

Range (psi)	Range (Bar)	Gage	Sealed	Absolute	Compound
0 to 100	0 to 7	•			
0 to 150	0 to 10	•			
0 to 250	0 to 16	•			•
0 to 500	0 to 35	•			•
0 to 1000	0 to 70	•			•
0 to 1500	0 to 100	•			•
0 to 2250	0 to 150	•			•
0 to 3000	0 to 200	•			•
0 to 5000	0 to 350	•			•
0 to 7500	0 to 500	•			•
0 to 10000	0 to 700	•			•
0 to 15000	0 to 1000	•			• ● S
0 to 22000	0 to 1500	•			• ● S
0 to 35000	0 to 2500	•			• ● S

Intermediate ranges available upon request.

PERFORMANCE SPECIFICATIONS

Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Accuracy				%F.S. BFSL	
RSS of linearity, hysteresis, and repeatability)	-0.3	±0.25	0.3	%F.S. BFSL	@ 25°C
Isolation, Body to any Lead	100			MΩ	@250VDC
Dielectric Strength			2	mA	@500VAC, 1min
Pressure Cycles	1X10 ⁶			0~FS Cycles	
Proof Pressure	2X		20k psi	Rated	
Burst Pressure	3X		20k psi	Rated	
Long Term Stability (1 year)	-0.25		0.25	%F.S	
Total Error Band	-2	±1.0	2	%F.S	Over compensated temperature range
Compensated Temperature	0		70	°C	
Operating Temperature	-40		120	°C	
Storage Temperature	-55		+130	°C	
Load Resistance (R _L)	RL > 100k			Ω	Voltage Output
Load Resistance (R _L)	< (Supply Voltage -9V) / 0.02A			Ω	Current Output
Current Consumption			10	mA	Voltage Output
Rise Time (10% to 90%)	<2ms (Voltage Output); <3ms (Current Output); Without Snubber				
Pressure Port Material	17-4PH or SST316L				
Shock	50g, 11msec Half Sine Shock per MIL-STD-202G, Method 213B, Condition A				
Vibration	±20g, MIL-STD-810C, Procedure 514.2-2, Curve L				

For custom configurations, consult factory.

Notes

Compensated Temperature: The temperature range over which the product will produce an output proportional to pressure within the specified performance limits.

Operating Temperature: The temperature range over which the product will produce an output proportional to pressure but may not remain within the specified performance limits.

Storage Temperature: The temperature range over which the product can be stored safely in occasions without pressure applied or power input and remains rated performance. Beyond this temperature range may cause permanent damage to the product.

All configurations are built with supply voltage reverse and output short-circuit protections.

CE Compliance (just for reference)

EN 55022 Emissions Class A & B

IEC 61000-4-2 Electrostatic Discharge Immunity (8kV contact/15kV air)

IEC 61000-4-3 Radiated, Radio-Frequency Electromagnetic Field Immunity (10V/m, 80M-1GHz)

IEC 61000-4-4 Electrical Fast Transient Immunity (1kV)

IEC 61000-4-5 Surge Immunity (V+ to V-: ±2KV/42Ω; L to Case: ±1KV/12Ω; V- to V0: ±1KV/42Ω)

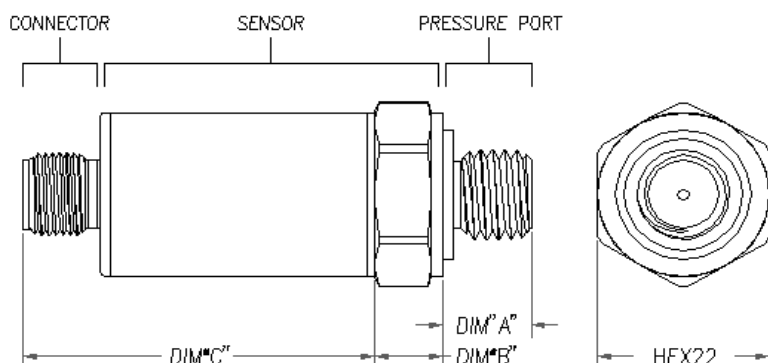
IEC 61000-4-6 Immunity to Conducted Disturbances Induced by Radio Frequency

Fields (150K-80MHz, 10V level for voltage output models, 3V level for current output model)

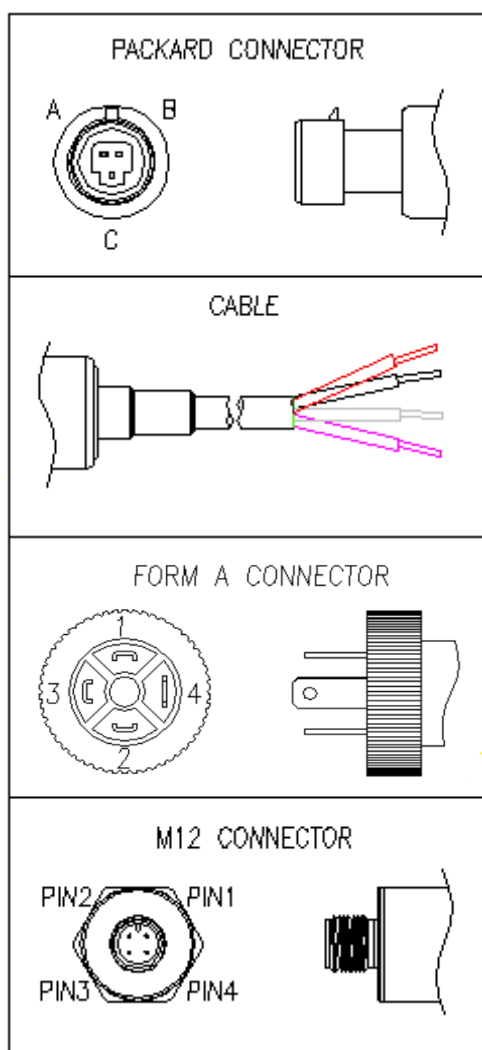
IEC 61000-4-9 Pulse Magnetic Field Immunity (100A/m peak)

For all CE compliance tests, max allowed output deviation ±1.5 %F.S. (Just Factory Testing)

DIMENSIONS [mm]



CODE	CONNECTION TYPE	DIM C (MAX)
1	CABLE 3 FT	1.97 [50.0]
2	CABLE 10 FT	1.97 [50.0]
3	PACKARD CONNECTOR	2.10 [53.5]
4	M12 CONNECTOR	1.71 [43.5]
5	FORM A CONNECTOR	1.93 [49.0]



CODE	PRESSURE PORT TYPE		
	PORT	DIM "A"	DIM "B"
1	G1/4 JIS B2351	0.472 [12.00]	0.3 [8.0]
2	M20 x 1.5 mm ISO 6149-2	0.661 [16.8]	0.3 [8.0]
3	1/4-18 NPT	0.600 [15.24]	0.3 [8.0]
4	7/16-20UNF FEMALE SAE J513 STRAIGHT THREAD WITH INTEGRAL VALVE DEPRESSOR	0.687[17.5]	0.3 [8.0]
5	M14 x 1.5 mm ISO 6149-2	0.472[12.0]	0.3 [8.0]
6	1/8-27 NPT	0.390[9.91]	0.3 [8.0]
7	M12 x 1.5 mm ISO 6149-2	0.472[12.0]	0.3 [8.0]
8	M10 x 1.0 mm ISO 6149-2	0.374[9.5]	0.3 [8.0]
9	G1/4 DIN 3852 FORM E GASKET DIN3869-14 NBR	0.512 [13.00]	0.3 [8.0]

WEATHERPROOF

WEATHER-PROOF RATING	
CONNECTION	P CODE
PACKARD CONNECTOR	IP66
CABLE	IP67
M12 CONNECTOR	IP67
FORM A CONNECTOR	IP65

OUTPUTS

CODE	OUTPUT SIGNAL	SUPPLY VOLTAGE
1	0.5 - 4.5V	5 ± 0.25V
	RATIOMETRIC	PROTECTED to 16V
2	1 - 5V	8 - 36V
3	4 - 20mA	9 - 36V
4	0 - 5V	8 - 36V
5	0 - 10V	13 - 36V
6	1 - 6V	8 - 36V
7	0.5 - 4.5V	7.5- 36V
8	I ² C	3.3V or 5V

