

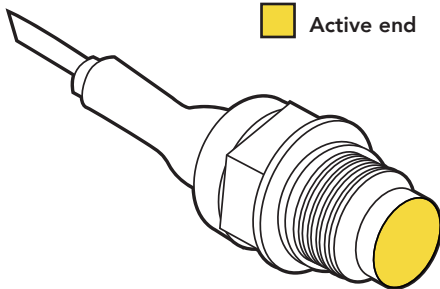


Miniature Pressure Sensor – Flush Mount Diaphragm



FEATURES

- Miniature size pressure sensor
- High-speed dynamic response for fast pressure measurement applications
- Flush mount
- Unamplified output mV/V range
- Supported by all FUTEK instruments and electronics



Active end

SPECIFICATIONS

PERFORMANCE

Nonlinearity	$\pm 0.4\%$ of RO BFSL; $\pm 0.8\%$ of RO End Point
Hysteresis	$\pm 0.2\%$ of RO BFSL; $\pm 0.4\%$ of RO End Point
Nonrepeatability	$\pm 0.02\%$ of RO typ
Natural Frequency	See Capacities Chart

ELECTRICAL

Rated Output (RO)	1-2 mV/V nom
Excitation (VDC or VAC)	7 max
Bridge Resistance	350 Ohm nom
Insulation Resistance	>1000 MOhm @50 VDC and 20°C
Connection	#29 AWG, 4 conductor, spiral shielded silicone cable, 5 ft [1.5 m] long
Wiring Code	WC1

MECHANICAL

Weight	< 10 g without cable
Safe Overload	150% of RO
Material	17-4 PH stainless-steel (Wetted/Body)
Recommended Mounting Torque	5 Nm max
IP Rating	IP65

TEMPERATURE

Operating Temperature	-40 to 194°F [-40 to +90°C]
Compensated Temperature	32 to 140°F [0 to 60°C]
Temperature Shift Zero	$\pm 0.02\%$ of RO/°F [$\pm 0.036\%$ of RO/°C]
Temperature Shift Span	$\pm 0.02\%$ of RO/°F [$\pm 0.036\%$ of RO/°C]

ENVIRONMENTAL

Shock	100 G'S 1/2 SINUSOIDAL - 1 ms
Vibration	± 0.02 of RO/G (20-2000 Hz, 50 G max)
EMI/RFI	EN61000

CALIBRATION

Calibration (standard)	Certificate of Conformance
Calibration (available)	5-pt pressure

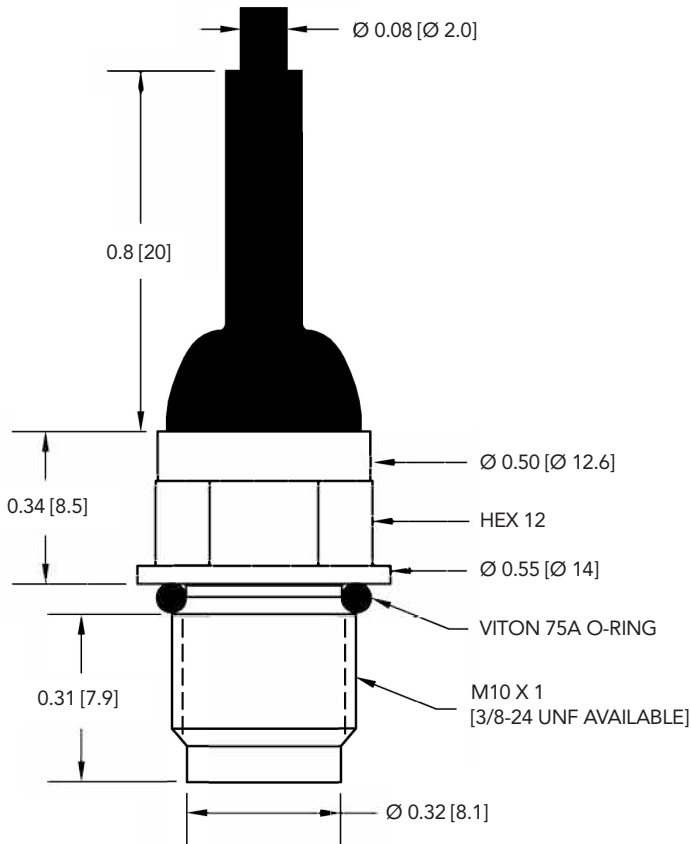
CONFORMITY

RoHS	EU 2015/863
CE	EN55011; EN61326-1



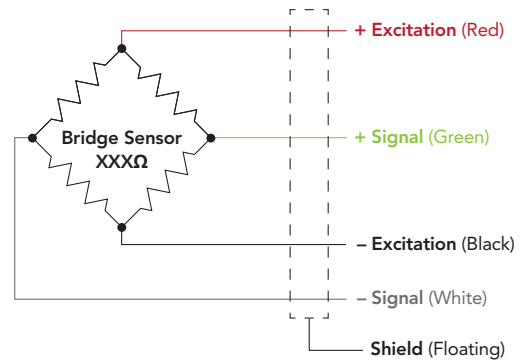
DIMENSIONS inches [mm]

TOLERANCE:
 .X ± 0.1" [2.5]
 .XX ± 0.01" [0.25]
 .XXX ± 0.005" [0.127]



WIRING CODE (WC1 WITH SHIELD)

RED	+ EXCITATION
BLACK	- EXCITATION
GREEN	+ SIGNAL
WHITE	- SIGNAL
SHIELD	SENSOR BODY



CAPACITIES

BAR*	PSI	Natural Frequency (KHz)
15	225	50
50	750	75
100	1450	90
200	3000	125
50	7500	150
700	10000	160

* Numbers in bar are not the exact conversion from PSIs

Drawing Number: F11159-J

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R0HS



U.S. Manufacturer