



FEATURES

- Fully internally temperature compensated (no external conditioning circuitry)
- Subminiature / light weight
- Low deflection / fast response
- For use in compression
- Utilizes metal foil strain gauge technology
- Accessories and related instruments available

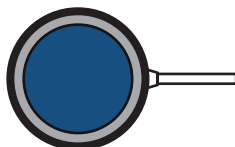
 Non-loading surface, do not contact

 Active End

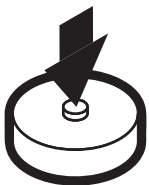
 Fixed end



Top view



Bottom view



+ Output (compression)

SPECIFICATIONS

PERFORMANCE

Nonlinearity	±0.5% of RO
Hysteresis	±0.5% of RO
Nonrepeatability	±0.1% of RO

ELECTRICAL

Rated Output (RO)	2 mV/V 1 mV/V (1000 g, 5 lb) nom
Excitation (VDC or VAC)	7 max
Bridge Resistance	350 Ohm nom
Insulation Resistance	≥500 MOhm @ 50 VDC
Connection	#34 AWG, 4 conductor Teflon, stainless-steel braided shielded cable 5-ft [1.5 m] long
Wiring/Connector Code	WC1s

MECHANICAL

Weight (approximate)	0.3 oz [8.5g]
Safe Overload	150% of RO
Deflection	0.0005 in [0.013 mm] nom
Material	17-4 PH stainless-steel
IP Rating	IP64

TEMPERATURE

Operating Temperature	-60 to 200°F (-51 to 93°C)
Compensated Temperature	60 to 160°F (16 to 71°C)
Temperature Shift Zero	±0.02% of RO/°F (±0.036 of RO/°C)
Temperature Shift Span	±0.02% of Load/°F (±0.036 of Load/°C)

CALIBRATION

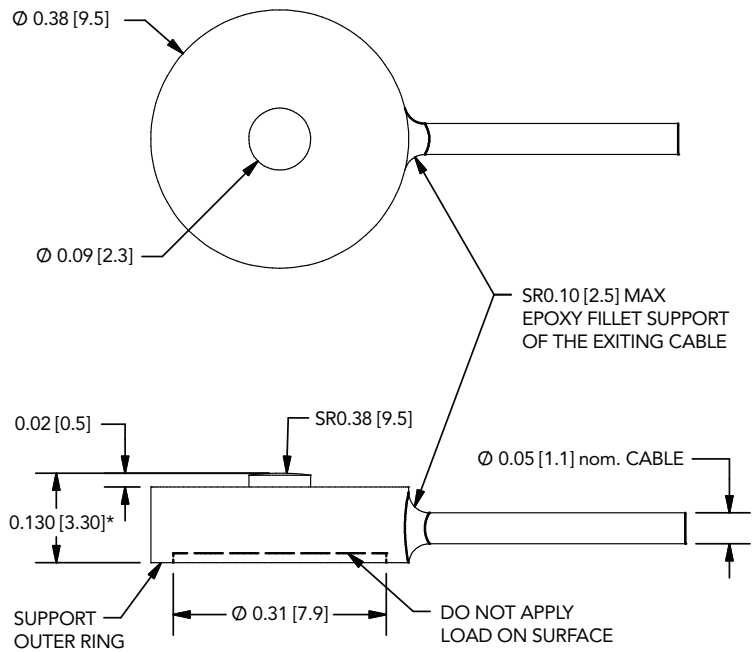
Calibration Test Excitation	5 VDC
Calibration (standard)	5-pt Compression
Shunt Calibration Value	60.4 kOhm, 100 kOhm (1000 g, 5 lb)

CONFORMITY

RoHS	EU 2015/863
CE	EN55011; EN61326-1

DIMENSIONS inches [mm]

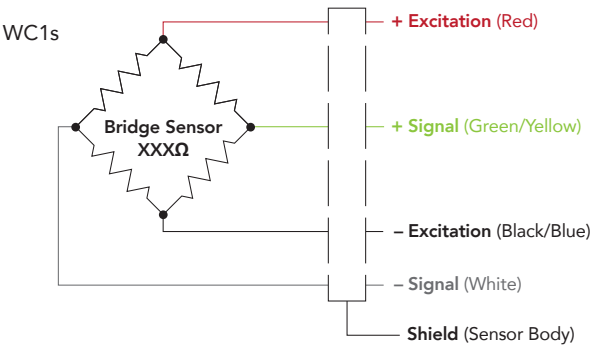
TOLERANCE:
.X ± 0.1" [2.5 mm]
.XX ± 0.01" [0.25 mm]
.XXX ± 0.005" [0.127 mm]



* ±0.001 [0.025]

WIRING CODE (WC1s)

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



CAPACITIES

ITEM #	lb	N	Natural Frequency (kHz)
FSH03881	1000 g	9.8	20
FSH03769	5 lb	22.2	28.5
FSH03770	10 lb	44.5	28.5
FSH03879	25 lb	111.2	42
FSH03880	50 lb	222.4	52

Drawing Number: FI1284-I

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