



## FEATURES

- Fully internally temperature compensated (no external conditioning circuitry)
- Subminiature / light weight
- Low deflection / fast response
- 17-4 PH stainless-steel construction
- For use in compression
- Utilizes metal foil strain gauge technology
- Accessories and related instruments available

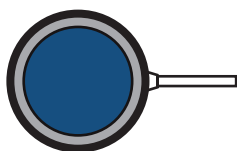
 Non-loading surface, do not contact

 Active End

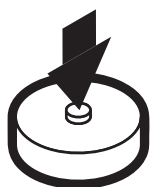
 Fixed end



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)

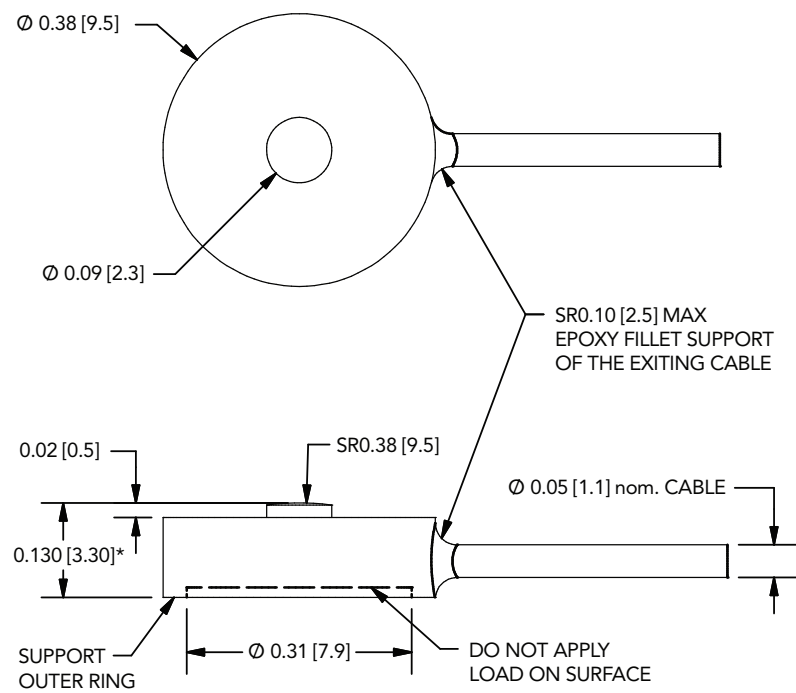
### CALIBRATION

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

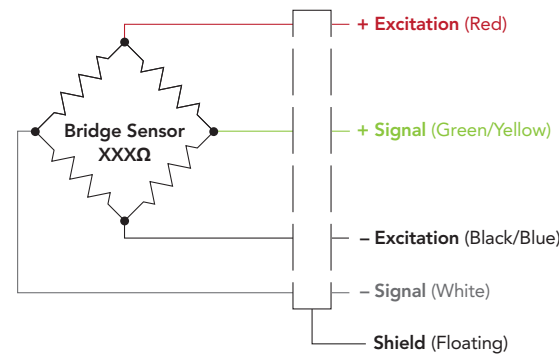
DIMENSIONS inches [mm]



\*  $\pm 0.001$  [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



SCIGATE AUTOMATION (S) PTE LTD

No.1 Bukit Batok Street 22 #01-01 Singapore 659592  
Tel: (65) 6561 0488 Fax: (65) 6562 0588  
Email: sales@scigate.com.sg Web: www.scigate.com.sg  
Business Hours: Monday - Friday 8.30am - 6.15pm

Drawing Number: FI1284-H

FUTEK reserves the right to modify its design and specifications without notice.  
Please visit <http://www.futek.com/salesterms> for complete terms and conditions.

10 Thomas, Irvine, CA 92618 USA

Tel: (949) 465-0900

Fax: (949) 465-0905

[www.futek.com](http://www.futek.com)



RoHS



U.S. Manufacturer