

FUTEK MODEL PFT510-SP

ITEM NUMBER: QSH01425

Drawing Number: FO1273-D

INCH [mm] R.O.= Rated Output

WIRING CODE (WC1)

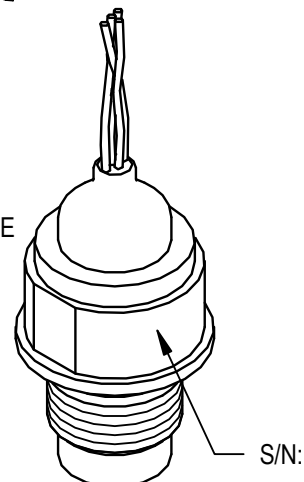
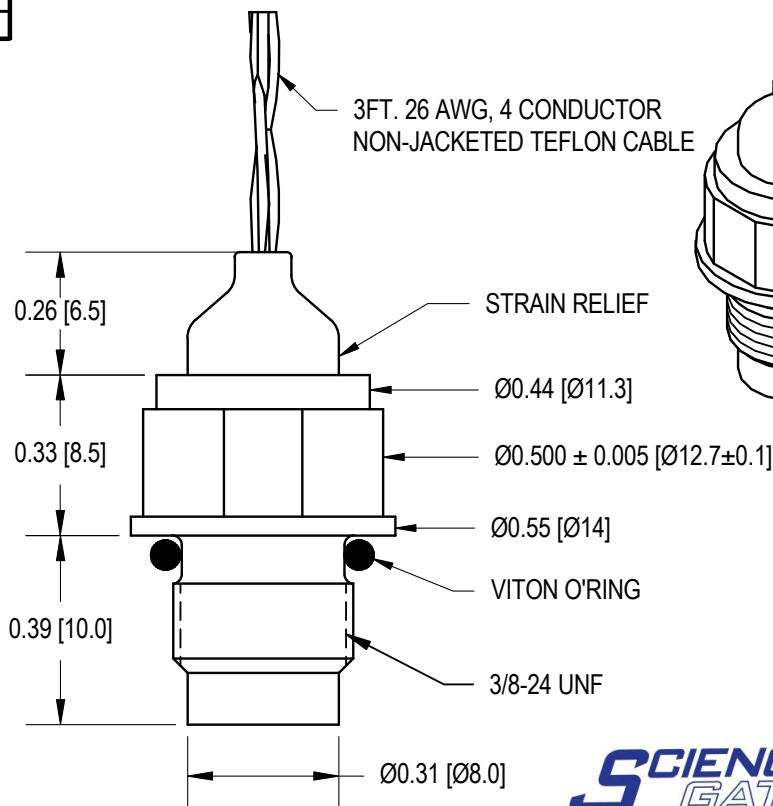
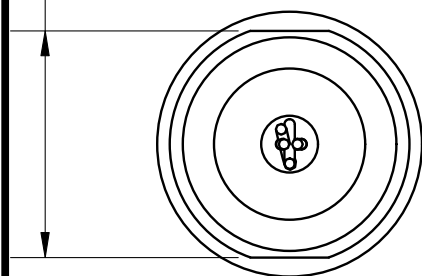
+Excitation	-Excitation	+Signal	-Signal
RED	BLACK	GREEN	WHITE

- FLUSH MOUNT
- STAINLESS STEEL CONSTRUCTION
- NEMA 4 (IP 65)

CUSTOM MINIATURE FLUSH MOUNT DIAPHRAGM PRESSURE SENSOR

CE COMPLIANT

0.472^{-0.002}_{-0.006} [12.0^{-0.05}_{-0.15}] FLAT



TECHNICAL SPECIFICATIONS:

(REFERENCE CONDITION: 20°C)

PERFORMANCE:

CAPACITY:	150 BAR
TYPE:	SEALED GAGE
RATED OUTPUT:	1-1.5 mV/V nom.
SAFE OVERLOAD:	150% of R.O.
BURST PRESSURE:	300% of R.O.
ZERO BALANCE:	±3% of R.O.
EXCITATION(VDC)	10 VDC MAX
COMBINED NONLIN. & HYSTERESIS	< ±0.5% of R.O. B.F.S.L.
NONREPEATABILITY	±0.02% of R.O. Type
NATURAL FREQUENCY	FROM 6 KHz (15 BAR) TO 100 KHz (700 BAR)
INSULATION RESISTANCE	>1000 MΩ @ 50Vdc and 20°C
BRIDGE RESISTANCE	350 Ω nom.
CALIBRATION	CERTIFICATE OF CONFORMANCE INCLUDED NIST TRACEABLE 5 pt. CALIBRATION AVAILABLE

MECHANICAL SPECIFICATION:

WEIGHT:	< 10g WITHOUT CABLE
WETTED/ BODY MATERIAL:	STAINLESS STEEL
ENCLOSURE PROTECTION:	NEMA 4 (IP 65)
ELECTRICAL CONNECTION:	26 AWG, 4 CONDUCTOR NON-JACKETED TEFLON CABLE, 3 ft. [1 m] LONG

ENVIRONMENTAL :

OPERATING TEMPERATURE	-15 to +194°F [-26 to +90°C]
COMPENSATED TEMPERATURE	-4 to +140°F [-20 to +60°C]
SHOCK:	100 G'S 1/2 SINUSOIDAL - 1 ms
VIBRATION:	±0.02 of R.O. / G (20-2000 Hz, 50 g MAX)
TEMP. SHIFT ZERO	±0.004% of R.O./°F [±0.007% of R.O./°C]
TEMP. SHIFT SPAN	±0.020% of R.O./°F [±0.036% of R.O./°C]
EMI/RFI:	EN61000

SCIENCE GATE
Your Automation Partner



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CUSTOMER APPROVAL-COMPANY

CUSTOMER APPROVAL-NAME /DATE

REVISIONS: (Refer to dwg # revision sheet)

09-01-2010
02-01-2011
01-10-2014
02-26-2014

OUTLINE DRAWING

STANDARD NOTES: (Unless Otherwise Specified)

- ALL DIMENSIONS ARE IN INCHES
- DRAWING INTERPRETATION DIMS. PER ASME-Y14.5M
- REMOVE BURRS AND BREAK SHARP EDGES .005 - .015
- THREADS PER HANDBOOK H-28
- DIMENSIONS ARE SHOWN AFTER PLATING

3rd ANGLE PROJ.



ANGLE:
±1/2°

CHAMFER:
±5°

TOLERANCE:
.X ±0.1
.XX ±0.01
.XXX ±0.005

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CAGE: 1X8M6

MODEL: PFT510-SP

DRAWN BY: T.LEE

APPROVED BY: -

DWG No.: FO1273-D

CHECKED BY: R.WALKER

DATE: JAN. 13, 2014