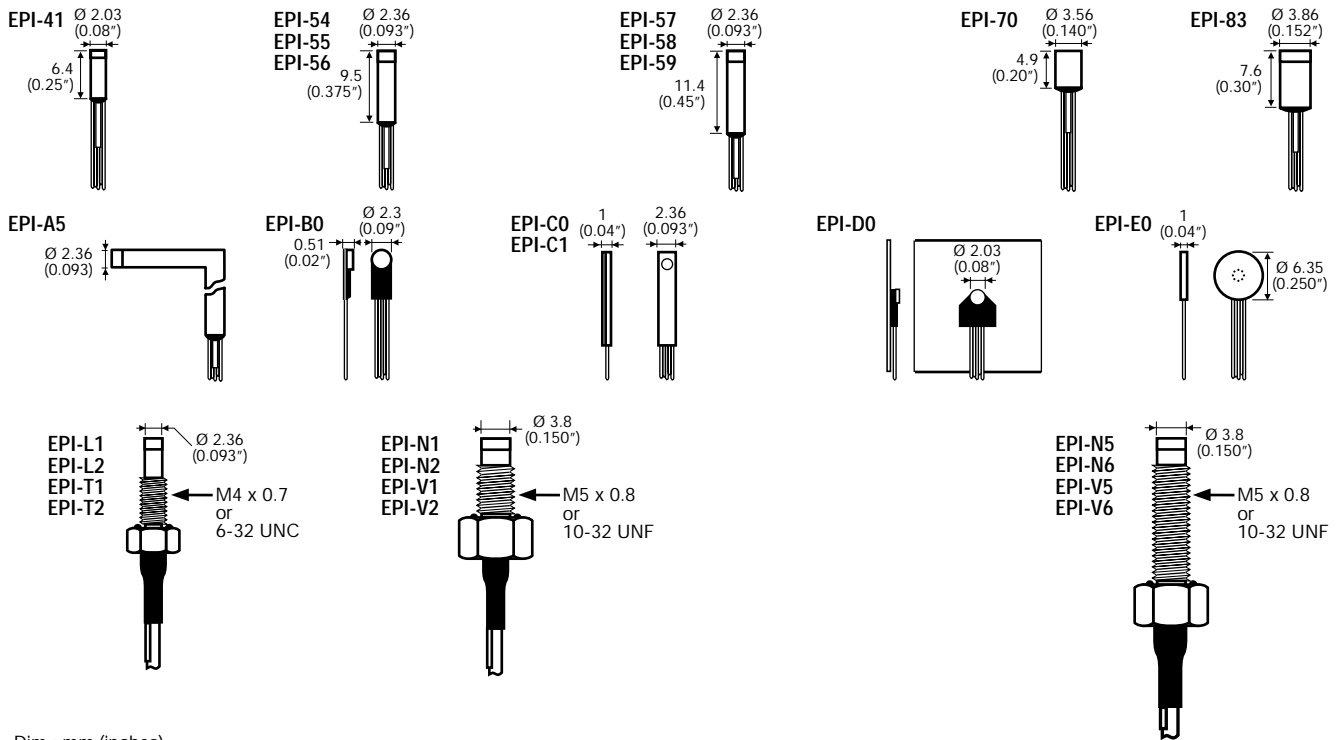


# EPI Series Pressure Sensors



## Subminiature - General Purpose

### MOUNTINGS



Dim.: mm (inches)

### EPI Series

PSI RANGES "FS" (Note 1)	BAR RANGES "FS" (Note 1)	PRESSURE LIMIT	RESONANT FREQUENCY nom. (Note 2)	OUTPUT "FSO" nom.	CNL&H (%FSO)	THERMAL ZERO SHIFT /50°C (/100°F)	G SENS. (%FSO/g)
5	0.35	5 XFS	125 KHz	15 mV	± 1 %	± 5 %FSO	0.0015
10	0.7	5 XFS	125 KHz	30 mV	± 1 %	± 2 %FSO	0.0007
15	1	3 XFS	125 KHz	45 mV	± 1 %	± 2 %FSO	0.0005
25	1.5	2 XFS	125 KHz	75 mV	± ¾ %	± 1½ %FSO	0.0003
50	3.5	2 XFS	160 KHz	90 mV	± ½ %	± 1 %FSO	0.0002
75	5	2 XFS	190 KHz	100 mV	± ½ %	± 1 %FSO	0.00015
100	7	2 XFS	220 KHz	100 mV	± ¼ %	± 1 %FSO	0.0001
250	15	2 XFS	300 KHz	100 mV	± ¼ %	± 1 %FSO	0.00008
500	35	2 XFS	420 KHz	100 mV	± ¼ %	± 1 %FSO	0.00005

Notes: <sup>1</sup> Vented (gauge/relative), Sealed or Absolute Pressure References 1, 2 or 3. Temperatures expressed in °F for PSI Ranges and °C for BAR Ranges. <sup>2</sup> Useful frequency is 20% of Resonant Frequency.

EXCITATION:	5VDC
IMPEDANCE IN:	1200Ω nom. typ.
IMPEDANCE OUT:	1000Ω nom.
NON-REPEATABILITY:	± ¼ % FSO
THERMAL SENSITIVITY SHIFT (TSS):	-2% to -6%/50°C (-2% to -6%/100°F) typ.
OPERATING TEMPERATURE:	-40°C to 120°C (-40°F to 250°F)
COMPENSATED TEMPERATURE:	20°C to 80°C (70°F to 170°F)      Option Z2: 0°C to 60°C (32°F to 140°F)
ZERO OFFSET AT 21°C (70°F):	±10 mV typ.
PRESSURE REFERENCES:	1 = Vented (gauge/relative) 2 = Sealed at 1 atmosphere 3 = Absolute (Zero offset to 0 pressure absolute)

"Off-The-Shelf" Stocking Program

 www.entran.com	<b>EPI PRESSURE SENSORS</b> <b>Subminiature</b> <b>General Purpose</b>	<b>Entran Sensors &amp; Electronics</b> USA: Fairfield, NJ UK: Garston, Watford, Herts, England Europe: Les Clayes-sous-Bois, France		
		SPECIFICATION <b>EPIS0001U</b>	ISSUE <b>PB0</b>	PAGE <b>1 of 4</b>

# EPI specifications continued ...

## Options and Accessories:

<b>COMPENSATED TEMPERATURE RANGES:</b>	<b>STANDARD</b> = 20°C to 80°C (70°F to 170°F)
	Z0 = -40°C to 20°C (-40°F to 70°F)
	Z1 = -20°C to 40°C (0°F to 100°F)
	Z2 = 0°C to 60°C (32°F to 140°F)
	Z4 = 40°C to 90°C (100°F to 200°F)
	Z* = Non-standard, contact Entran
<b>5 WIRE BRIDGE WIRING FOR ADJUSTABLE ZERO OFFSET:</b>	5 = 5 Wire
<b>EXCITATION VOLTAGE:</b>	<b>STANDARD</b> = 5VDC
	V0 = Replace "0" with Excitation between 1 and 5. If less than 5, Sensitivity (FSO) will decrease accordingly.
	V10 = 10V Excitation, Input Impedance = 2000Ω nom. typ., TSS = -4% nom. typ.
	V* = Non-standard Excitation with standard FSO and non-standard TSS, contact Entran.
<b>SPECIAL LEAD OR CABLE LENGTH:</b>	L00F = Replace "00" with total length in feet.
	L00M = Replace "00" with total length in meters.
<b>SPECIAL MODULE LOCATION FOR -41, -54, -57, -70, -83, -A5, -B0, -C0, -D0 &amp; -E0:</b>	M00F = Replace "00" with distance between sensor and module in feet.
	M00M = Replace "00" with distance between sensor and module in meters.
<b>CUSTOM LENGTH:</b>	0000I = Replace "0000" with length in inches between 0.25" and 1.50" (Ex: 1.50I)
	0000M = Replace "0000" with length in millimeters between 6.3mm and 38mm (Ex: 35M)
<b>PROTECTIVE COATINGS ON DIAPHRAGM:</b>	PAR = Parylene
	RTV = RTV Silicone Rubber
<b>REPLACEMENT OF "B" TYPE SCREEN WITH "M" SCREEN ON -54, -55, -57, -58, -83, -A5, -L2, -N2, -N6, -T2, -V2 &amp; -V6:</b>	M = "M" Screen
<b>WATERPROOFING LEAD OR CABLE EXIT FOR -41, -54, -57 AND -A5 WITH PRESSURE REFERENCES "2" AND "3" ONLY:</b>	X = Short term waterproofing. Limited to 105°C (220°F) except on threaded mountings.
<b>CONNECTOR WIRED TO LEADS OR CABLE:</b>	C = Microtech type male or equivalent (w/o mate) for leads or cable.
	<b>R</b> = RJ Telephone type male (w/o mate) for leads.
	RS = RJ Telephone type male (w/o mate) for cable.
	<b>RQ</b> = Pins to mate with MM50 screw terminals.
<b>MATING CONNECTORS FOR CONNECTOR OPTIONS:</b>	See Cable and Connector Bulletins
<b>EXTRA O-RINGS FOR EPI:</b>	SO-L0, N0 & V0 = BUNA-N    SO-N2 & -V2 = Viton    SO-N3 = Teflon

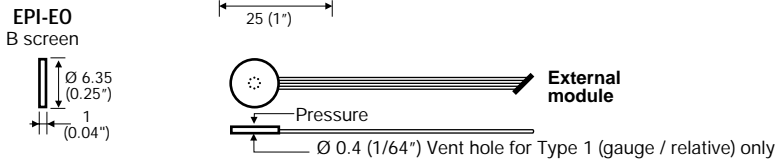
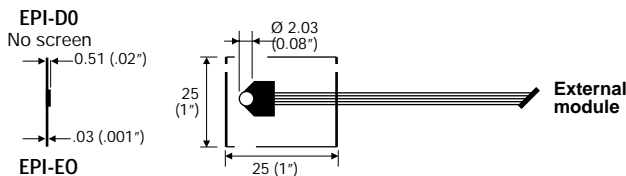
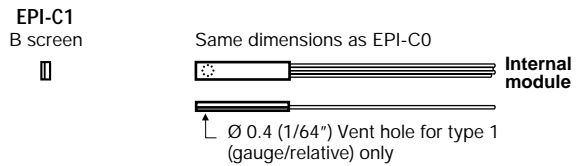
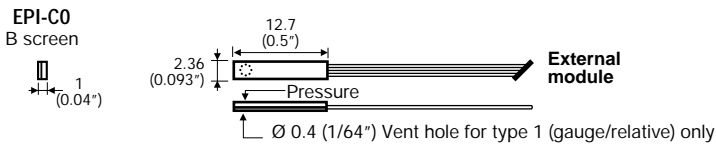
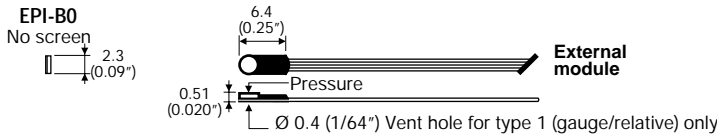
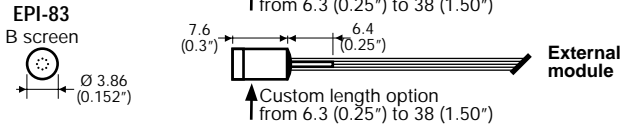
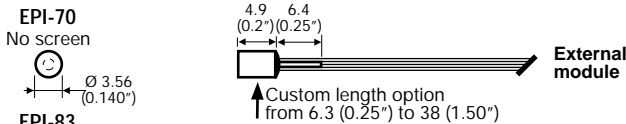
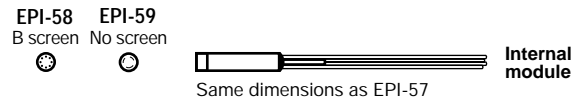
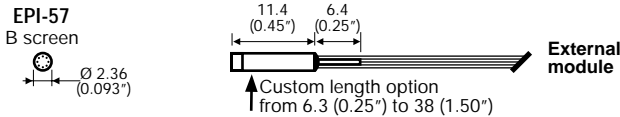
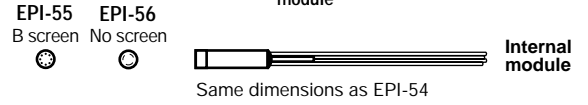
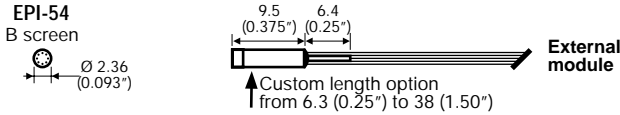
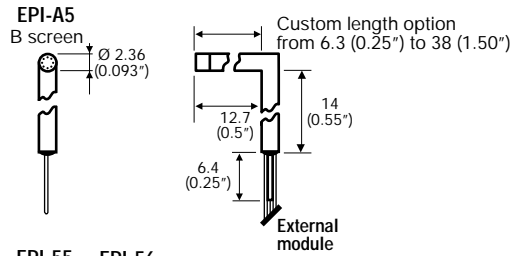
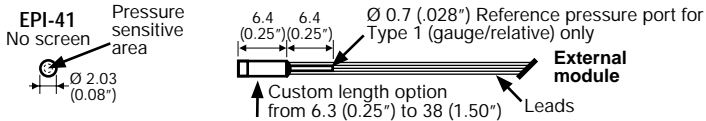
## Model Number construction:

EPI Series	-	41 Body	1 Reference	-	5 Range	B Units	-	R/L3M/35M/Z2 Options
		41 83 L1 T1	1		(K used for 1000 Ex: 1K)	B = BAR P = PSI		C, <b>R</b> , RS or <b>RQ</b> PAR or RTV L00F or L00M    V1 thru V5, V10 or V* M    X M00F or M00M    Z0, Z1, Z2, Z4 or Z* 0000I or 0000M    5
		54 A5 L2 T2	2					
		55 B0 N1 V1	3					
		56 C0 N2 V2						
		57 C1 N5 V5						
		58 D0 N6 V6						
		59 E0						
		70						

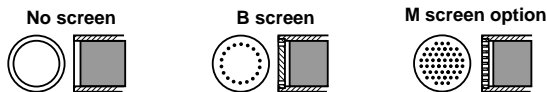
"Off-The-Shelf" Stocking Program

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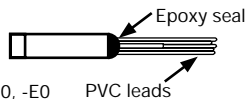


## PRESSURE SENSING END STYLES

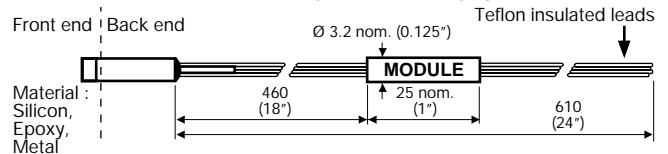


**X Option waterproofing**

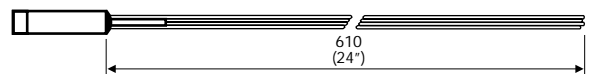
Except on EPI-B0, -C0, -C1, -D0, -E0



## WIRING - EXTERNAL MODULE



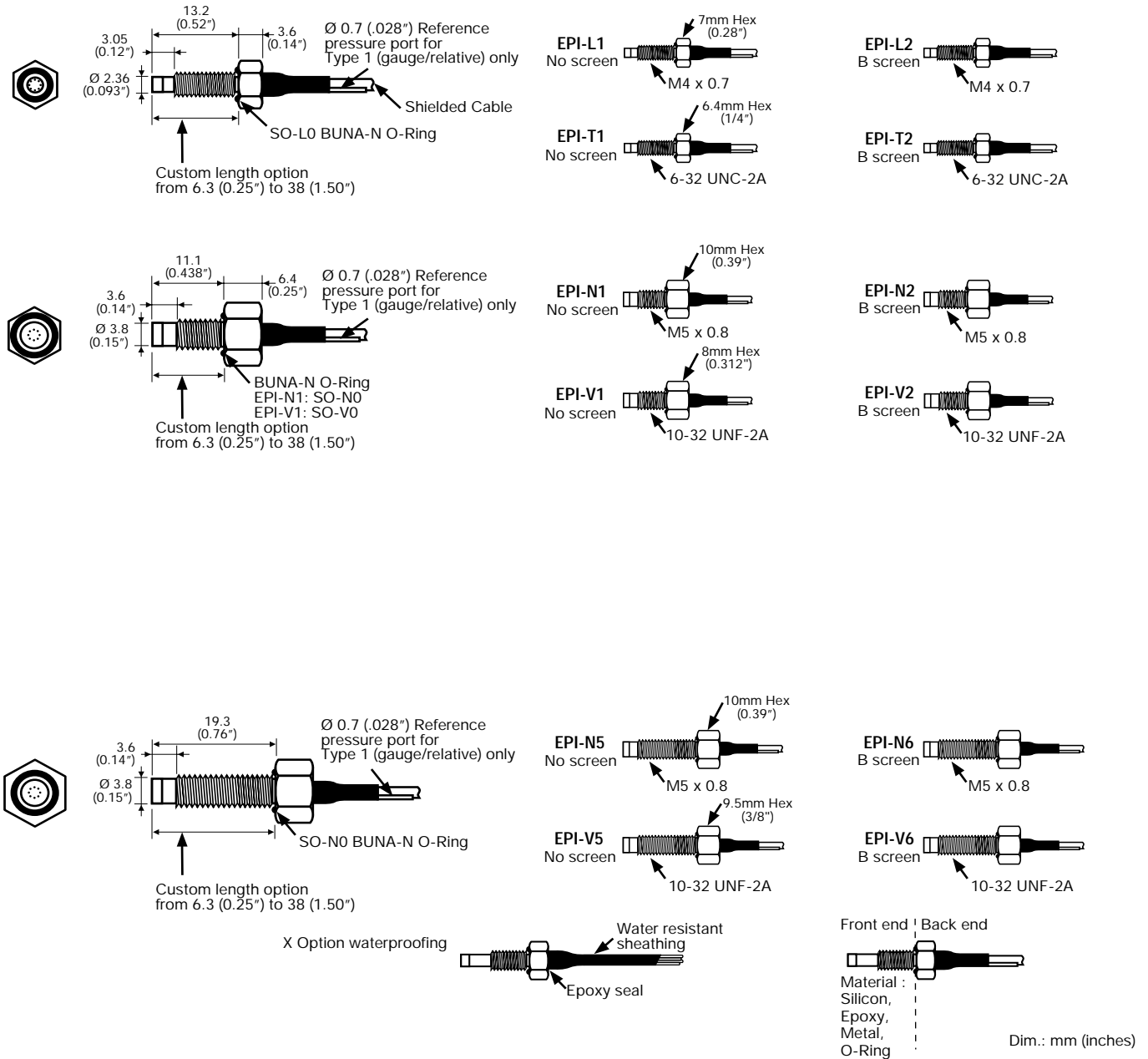
## WIRING - INTERNAL MODULE



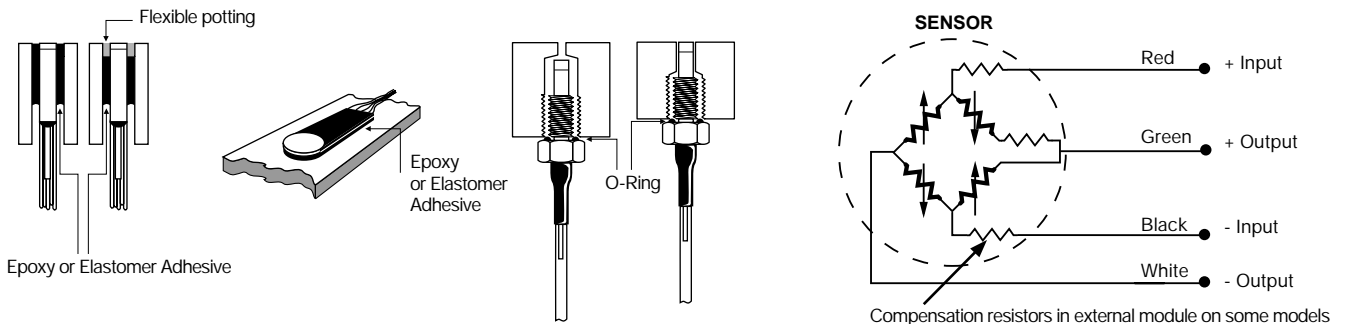
Dim.: mm (inches)

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## Installation:



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EPI PRESSURE SENSORS

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