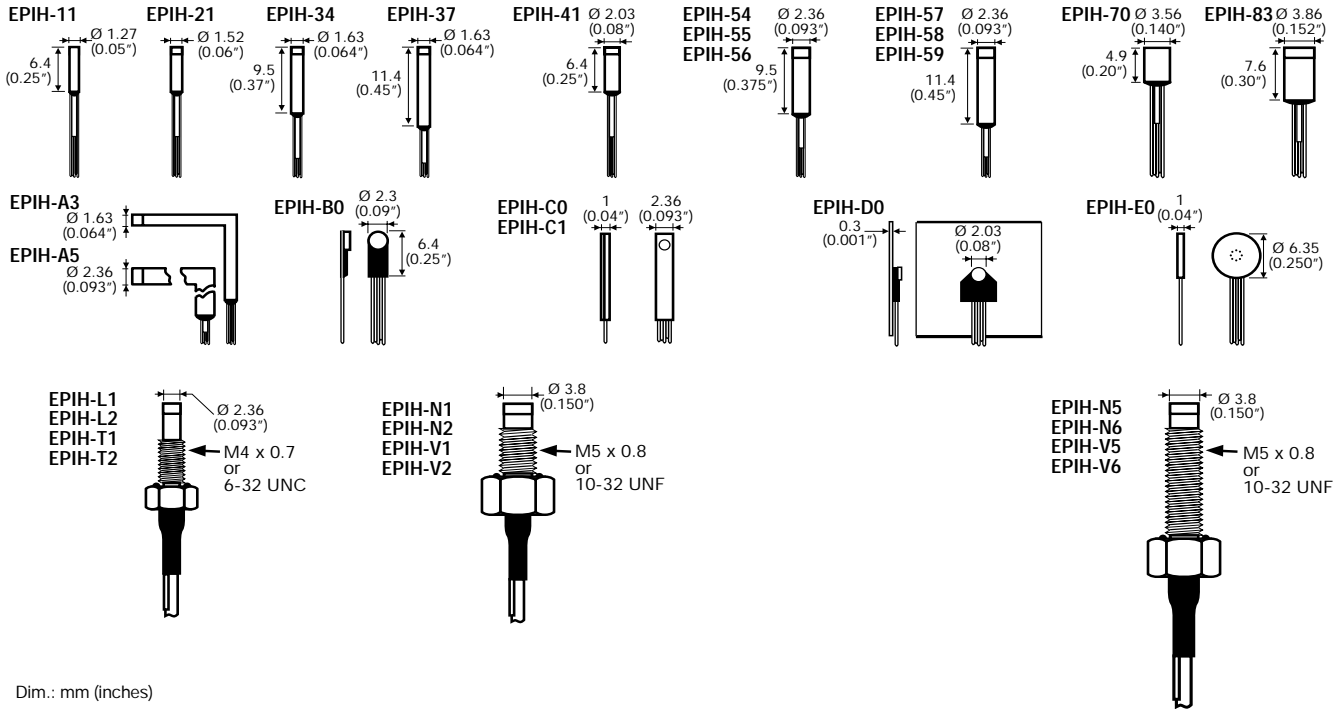


EPIH Series Pressure Sensors

Subminiature: Smallest - Highest Frequency



MOUNTINGS



Dim.: mm (inches)

EPIH 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	12 mV	± 1%	± 1 mV	0.001
10	0.7	5 XFS	200 KHz	24 mV	± 1%	± 1 mV	0.0005
15	1	3 XFS	400 KHz	36 mV	± 1%	± 1 mV	0.00035
25	1.5	2 XFS	500 KHz	60 mV	± 1%	± 2½ %FSO	0.0002
50	3.5	2 XFS	600 KHz	75 mV	± 1%	± 2½ %FSO	0.0002
75	5	2 XFS	700 KHz	75 mV	± 1%	± 2½ %FSO	0.00015
100	7	2 XFS	1.0 MHz	75 mV	± 1%	± 2½ %FSO	0.0001
200	14	2 XFS	1.4 MHz	75 mV	± 1%	± 2½ %FSO	0.00006
300	20	2 XFS	1.7 MHz	75 mV	± 1%	± 2½ %FSO	0.00005

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

EXCITATION:	5VDC
IMPEDANCE IN:	750Ω nom. typ.
IMPEDANCE OUT:	750Ω nom.
NON-REPEATABILITY:	± ¼ % FSO
THERMAL SENSITIVITY SHIFT (TSS):	-2% to -8%/50°C (-2% to -8%/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)

 www.entran.com	EPIH PRESSURE SENSORS Subminiature Smallest - High Frequency	Entran Sensors & Electronics USA: Fairfield, NJ UK: Garston, Watford, Herts, England Europe: Les Clayes-sous-Bois, France		
		SPECIFICATION EPIHS001U	ISSUE PC0	PAGE 1 of 4

EPIH specifications continued ...

Options and Accessories:

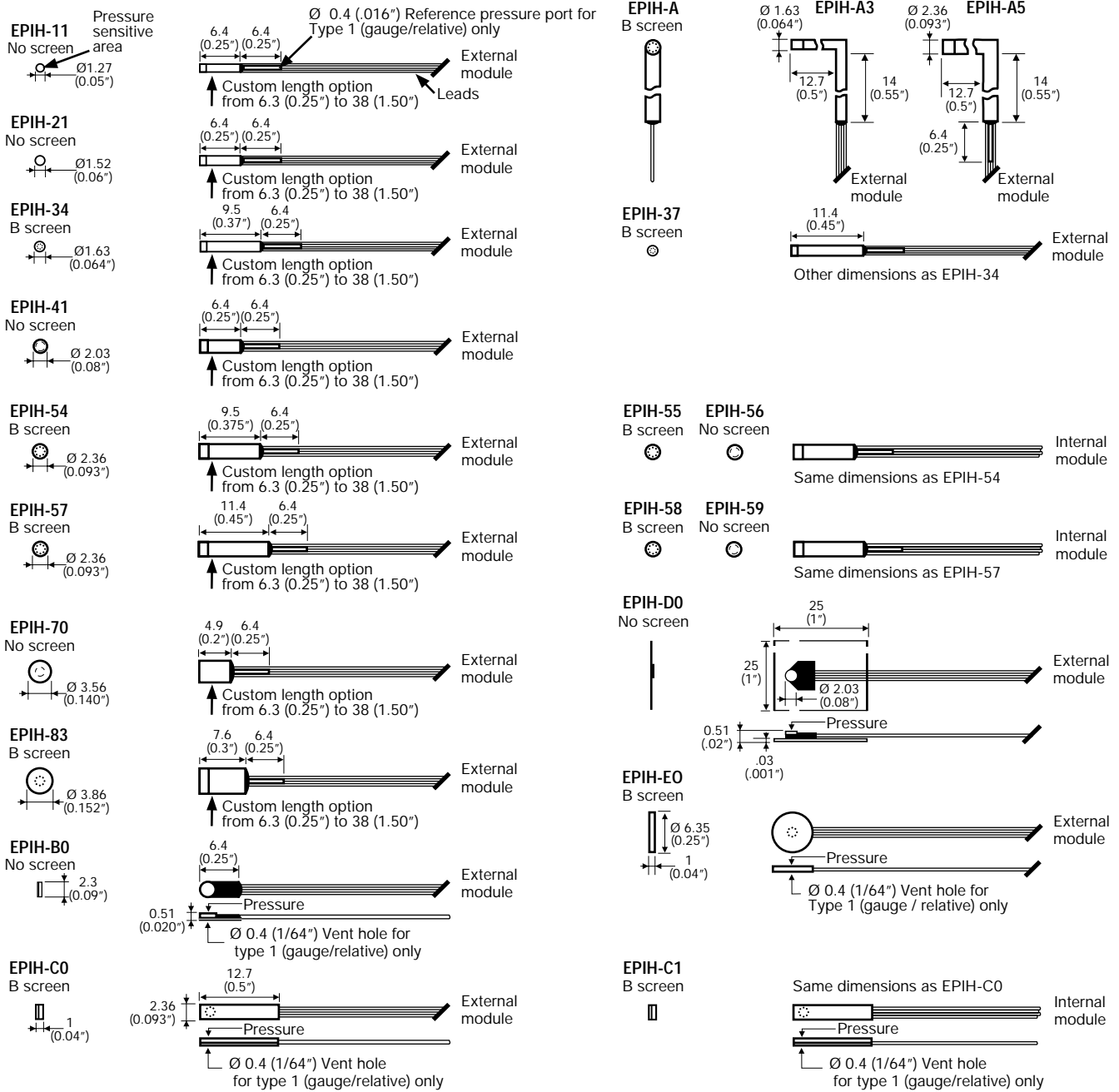
COMPENSATED TEMPERATURE RANGES:	STANDARD = 20°C to 80°C (70°F to 170°F)
	Z0 = -40°C to 20°C (-40°F to 70°F)
	Z1 = -20°C to 40°C (0°F to 100°F)
	Z2 = 0°C to 60°C (32°F to 140°F)
	Z4 = 40°C to 90°C (100°F to 200°F)
	Z* = Non-standard, contact Entran
5 WIRE BRIDGE WIRING FOR ADJUSTABLE ZERO OFFSET:	5 = 5 Wire
EXCITATION VOLTAGE:	STANDARD = 5VDC
	V0 = Replace "0" with Excitation between 1 and 5. If less than 5, Sensitivity (FSO) will decrease accordingly.
	V10 = 10V Excitation, Input Impedance = 1500Ω nom. typ., TSS = -6% nom. typ.
	V* = Non-standard Excitation with standard FSO and non-standard TSS, contact Entran.
SPECIAL LEAD OR CABLE LENGTH:	L00F = Replace "00" with total length in feet.
	L00M = Replace "00" with total length in meters.
SPECIAL MODULE LOCATION FOR -11, -21, -34, -37, -41, -54, -57, -70, -83, -A5, -B0, -C0, -D0 & -E0:	M00F = Replace "00" with distance between sensor and module in feet.
	M00M = Replace "00" with distance between sensor and module in meters.
CUSTOM LENGTH:	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: 38M)
PROTECTIVE COATINGS ON DIAPHRAGM:	PAR = Parylene
	RTV = RTV Silicone Rubber
REPLACEMENT OF "B" TYPE SCREEN WITH "M" SCREEN ON -34, -37, -54, -55, -57, -58, -83, -A5, -L2, -N2, -N6, -T2, -V2 & -V6:	M = "M" Screen
WATERPROOFING CABLE EXIT ON -L1, -L2, -N1, -N2, -N5, -N6, -T1, -T2, -V1, -V2, -V5 & -V6:	X = Short term waterproofing.
CONNECTOR WIRED TO LEADS OR CABLE:	C = Microtech type male or equivalent (w/o mate) for leads or cable.
	R = RJ Telephone type male (w/o mate) for leads.
	RS = RJ Telephone type male (w/o mate) for cable.
	RQ = Pins to mate with MM50 screw terminals.
MATING CONNECTORS FOR CONNECTOR OPTIONS:	See Cable and Connector Bulletins
EXTRA O-RINGS FOR EPIH:	SO-L0, -N0 & -V0 = BUNA-N SO-N2 & -V2 = Viton SO-N3 = Teflon

Model Number construction:

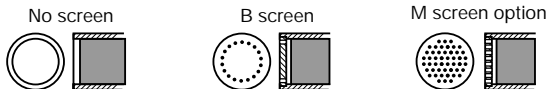
<u>EPIH</u> Series	-	<u>41</u> Body	-	<u>1</u> Reference	-	<u>5</u> Range	-	<u>B</u> Units	-	<u>/R/L3M/35M/Z2</u> Options
11	55	A3 L1 T1		1		(K used for 1000 Ex: 1K)		B = BAR P = PSI		C, R, RS or RQ PAR or RTV L00F or L00M V1 thru V5, V10 or V* M X M00F or M00M Z0, Z1, Z2, Z4 or Z* 0000I or 0000M 5
21	56	A5 L2 T2		2						
34	57	B0 N1 V1		3						
37	58	C0 N2 V2								
41	59	C1 N5 V5								
54	70	D0 N6 V6								
		83 E0								

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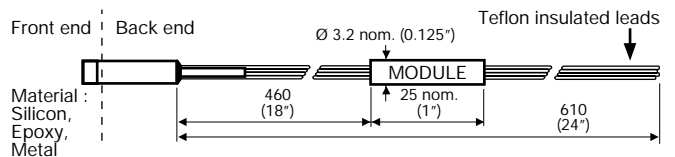
EPIH specifications continued ...



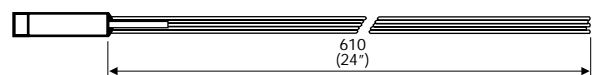
PRESSURE SENSING END STYLES



WIRING - EXTERNAL MODULE



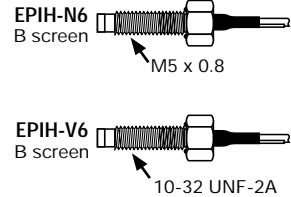
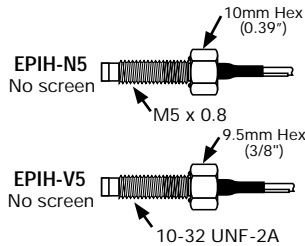
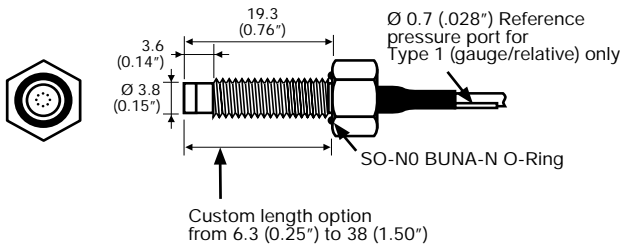
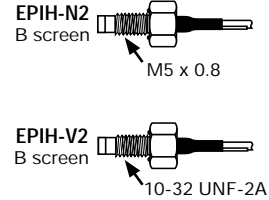
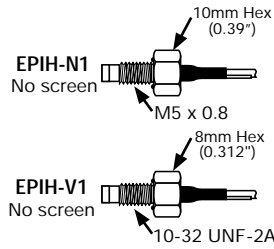
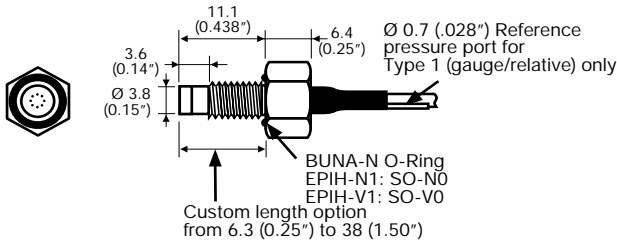
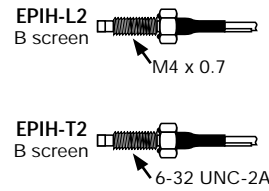
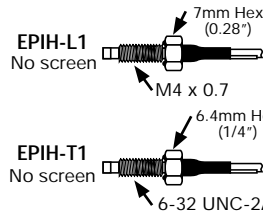
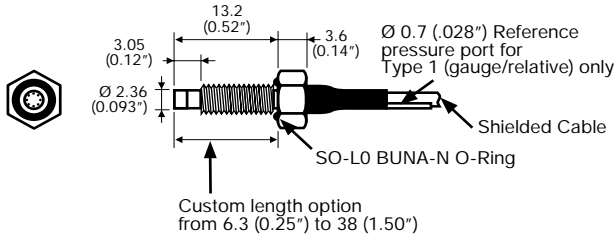
WIRING - INTERNAL MODULE



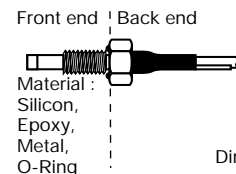
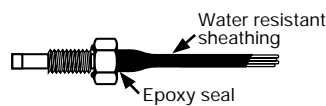
Dim.: mm (inches)

<h1>Entran[®]</h1>	<h2>EPIH PRESSURE SENSORS</h2>	SPECIFICATION	ISSUE	PAGE
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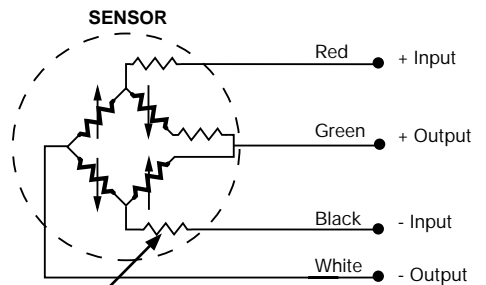
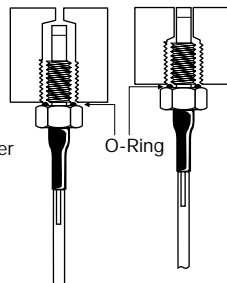
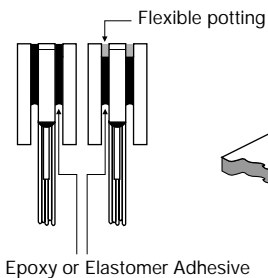


X Option waterproofing



Dim.: mm (inches)

Installation:



Compensation resistors in external module on some models

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EPIH PRESSURE SENSORS

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