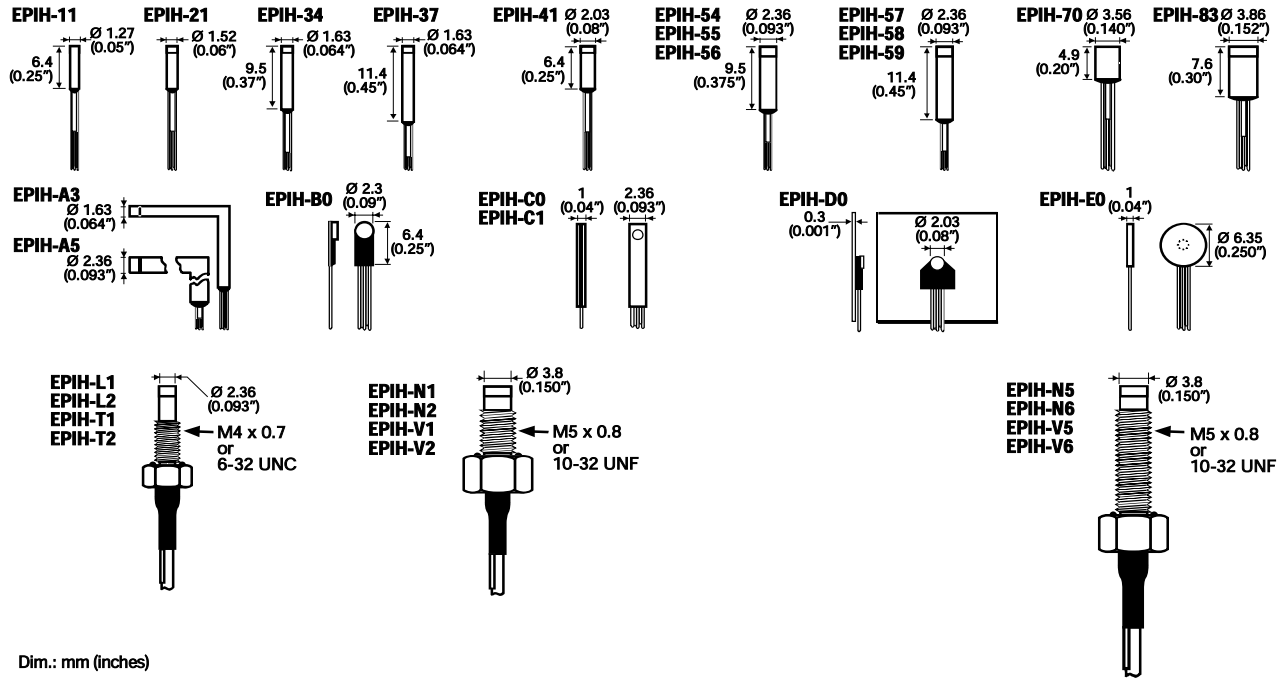


EPIH Series Pressure Sensors

Subminiature: Smallest - Highest Frequency



MOUNTINGS



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	0.00015
75	5	2 XFS	700 KHz	75 mV	± 1%	± 2½ %FSO	0.0001
100	7	2 XFS	1.0 MHz	75 mV	± 1%	± 2½ %FSO	0.00006
200	14	2 XFS	1.4 MHz	75 mV	± 1%	± 2½ %FSO	0.00005
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		
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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: EXTRA O-RINGS FOR EPIH:

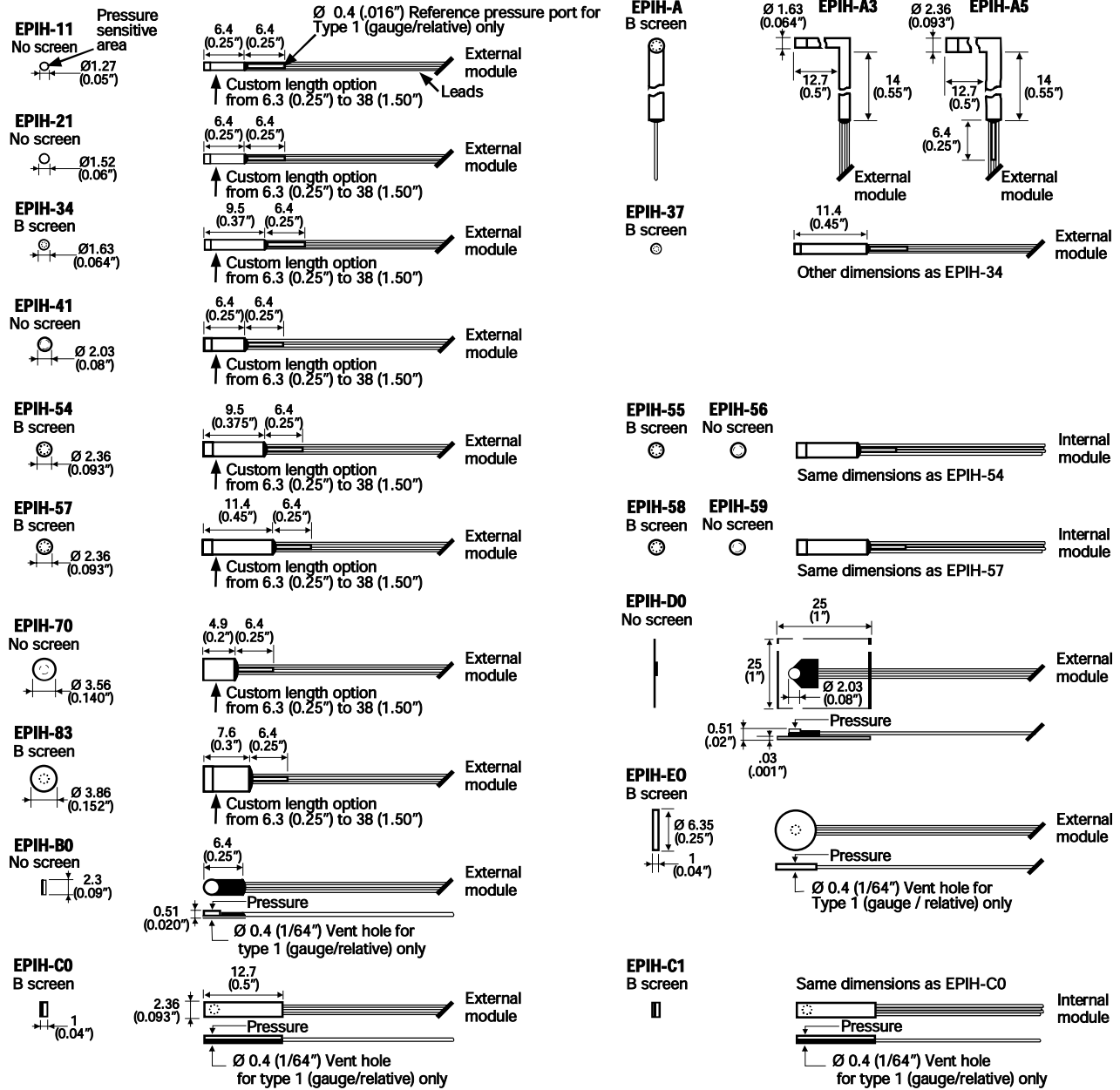
See Cable and Connector Bulletins
 SO-L0, -N0 & -V0 = BUNA-N SO-N2 & -V2 = Viton SO-N3 = Teflon

Model Number construction:

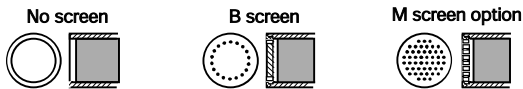
EPIH Series	-	41 Body	1 Reference	-	5 Range	B Units	-	/R/L3M/35M/Z2 Options
		11 55 A3 L1 T1	1		(K used for 1000 Ex: 1K)	B = BAR P = PSI		C, R, RS or RQ L00F or L00M M M00F or M00M 0000I or 0000M
		21 56 A5 L2 T2	2					PAR or RTV V1 thru V5, V10 or V*
		34 57 B0 N1 V1	3					X Z0, Z1, Z2, Z4 or Z*
		37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

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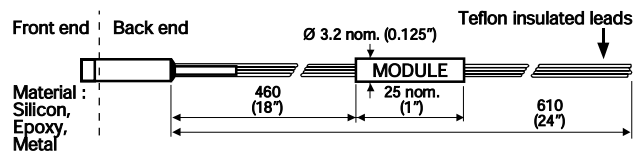
EPIH specifications continued ...



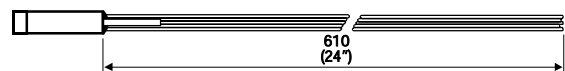
PRESSURE SENSING END STYLES



WIRING - EXTERNAL MODULE



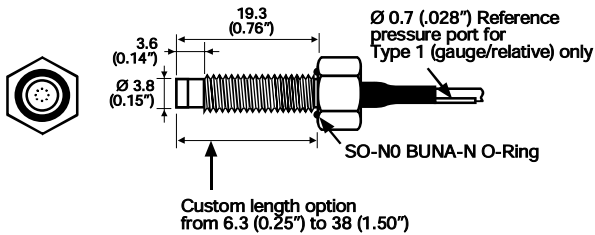
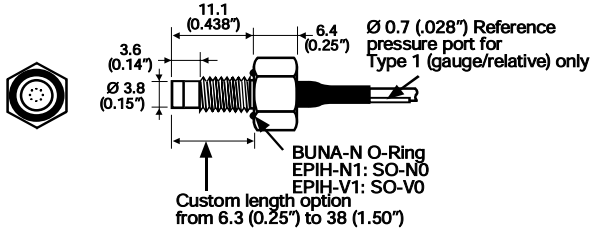
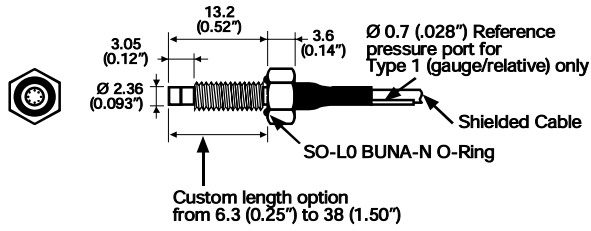
WIRING - INTERNAL MODULE



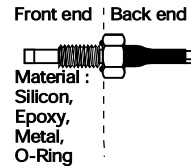
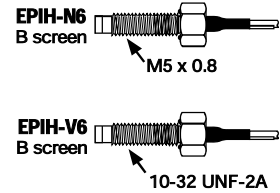
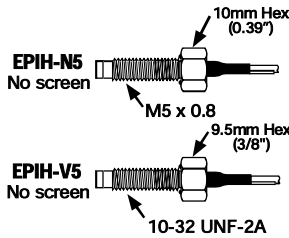
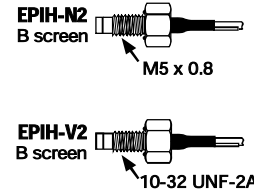
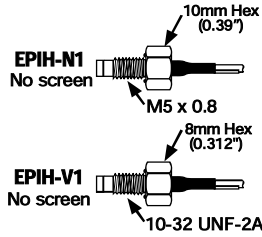
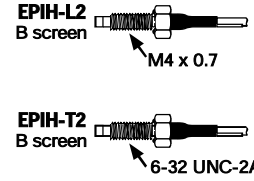
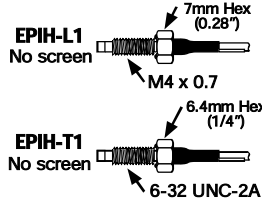
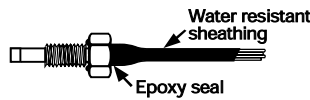
Dim.: mm (inches)

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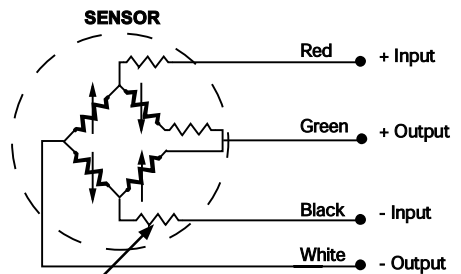
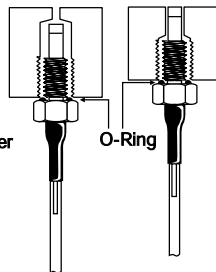
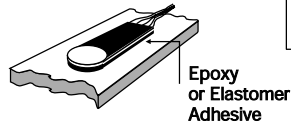
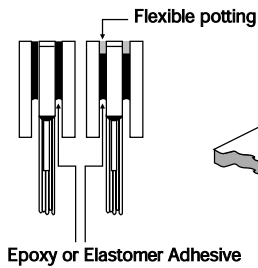


X Option waterproofing



Dim.: mm (inches)

Installation:



Compensation resistors in external module on some models

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CONTATO

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