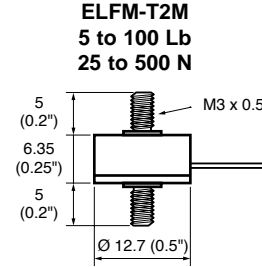
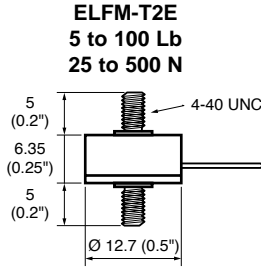
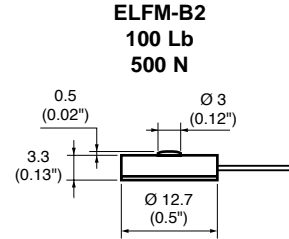
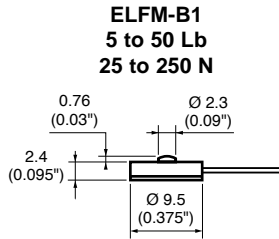


# ELFM Series Load Cells

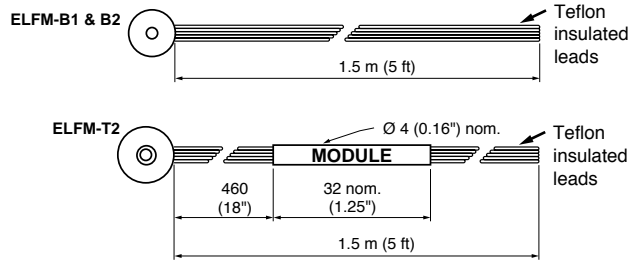


Subminiature - High Stability

## ELFM-B1, -B2 & T2



### WIRING



Dim: mm (inches)

## ELFM Series

BODY STYLES	Lb RANGES "FS" ( $\pm$ for -T)	N RANGES "FS" ( $\pm$ for -T)	OVERRANGE LIMIT	OUTPUT "FSO" nom. ( $\pm$ for -T)
ELFM-B1 & -T2	5	25	2x FS	2 mV/V
ELFM-B1 & -T2	10	50	1.5x FS	2 mV/V
ELFM-B1 & -T2	25	125	1.5x FS	2 mV/V
ELFM-B1 & -T2	50	250	1.5x FS	2 mV/V
ELFM-B2 & -T2	100	500	1.2x FS	2 mV/V

<b>EXCITATION:</b>	5VDC
<b>BRIDGE IMPEDANCE:</b>	350 $\Omega$
<b>SENSING TECHNOLOGY:</b>	Metallic Foil
<b>NON-LINEARITY:</b>	-B: $\pm 0.25\%$ FSO -T: $\pm 0.5\%$ FSO
<b>HYSTERESIS:</b>	-B: $\pm 0.25\%$ FSO -T: $\pm 0.5\%$ FSO
<b>DEFLECTION AT "FS":</b>	0.025 to 0.075mm (0.001 to 0.003") nom.
<b>THERMAL ZERO SHIFT:</b>	0.02% FSO/ $^{\circ}$ C (0.01% FSO/ $^{\circ}$ F)
<b>THERMAL SENSITIVITY SHIFT (TSS):</b>	0.02%/ $^{\circ}$ C (0.01%/ $^{\circ}$ F)
<b>OPERATING TEMPERATURE:</b>	-50 $^{\circ}$ C to 120 $^{\circ}$ C (-65 $^{\circ}$ F to 250 $^{\circ}$ F)
<b>COMPENSATED TEMPERATURE:</b>	15 $^{\circ}$ C to 70 $^{\circ}$ C (60 $^{\circ}$ F to 160 $^{\circ}$ F)
<b>ZERO OFFSET AT 20<math>^{\circ}</math>C (70<math>^{\circ}</math>F):</b>	$\pm 2\%$ FSO typ.
<b>MODE:</b>	-B: Compression (+Signal Output for Compression) -T: Tension/Compression (+Signal Output for Tension)
<b>CALIBRATION:</b>	-B: In Compression -T: In Tension
<b>BODY MATERIAL:</b>	Stainless Steel

"Off-the-Shelf" Stocking Program

 www.entran.com	<b>ELFM LOAD CELLS</b> Subminiature - High Stability Smallest Size & Profile	<b>Entran Sensors &amp; Electronics</b> USA: Fairfield, NJ UK: Garston, Watford, Herts, England Europe: Les Clayes-sous-Bois, France		
		SPECIFICATION	ISSUE	PAGE
		ELFMS001U	PB2	1 of 2

# ELFM specifications continued ...

## Options and Accessories:

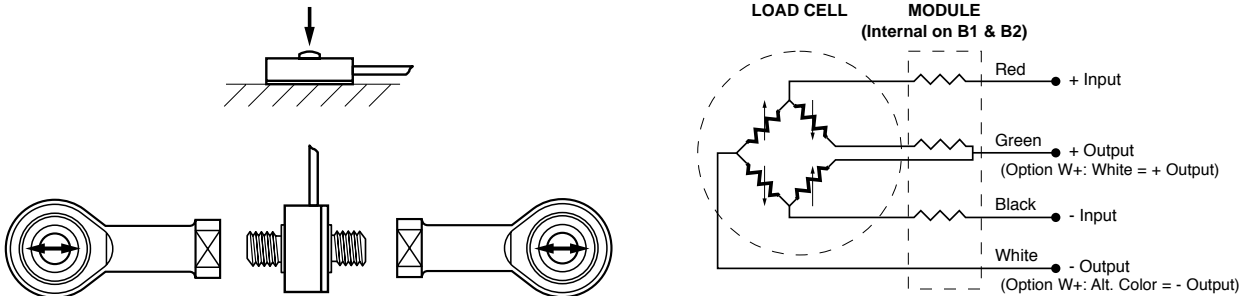
<b>COMPENSATED TEMPERATURE RANGES:</b>	<b>STANDARD</b> Z1 Z2 Z4 Z*	<b>= 15°C to 70°C (60°F to 160°F)</b> = -20°C to 40°C (0°F to 100°F) = 0°C to 60°C (32°F to 140°F) = 40°C to 90°C (100°F to 200°F) = Non-standard, contact Entran
<b>EXCITATION VOLTAGE:</b>	<b>STANDARD</b> V*	<b>= 5VDC</b> = Non-standard Excitation, contact Entran
<b>SPECIAL LEAD LENGTH:</b>	L00F L00M	= Replace "00" with total length in feet. = Replace "00" with total length in meters.
<b>SPECIAL MODULE LOCATION:</b>	M00F M00M	= Replace "00" with distance between sensor and module in feet. = Replace "00" with distance between sensor and module in meters.
<b>WATERPROOFING LEAD EXIT</b> Not available on ELFM-B1 below 25lbs or 125N:	X	= Short term waterproofing. Limited to 105°C (220°F).
<b>CONNECTOR WIRED TO LEADS:</b>	C R RQ	= Microtech type male (w/o mate) = RJ Telephone type male (w/o mate) = Pins to mate with MM50 screw terminals
<b>WIRING COLOR CODE:</b>	<b>STANDARD</b> W+	<b>Green = + Output Signal    White = - Output Signal</b> White = + Output Signal    Alt. Color = - Output Signal
<b>MATING CONNECTORS FOR CONNECTOR OPTIONS:</b>	See Cable and Connector Bulletin	
<b>CALIBRATION:</b>	<b>STANDARD</b> Available	<b>-B: Compression    -T: Tension</b> Tension & Compression calibration for -T body Compression calibration for -T body

## Model Number construction:

<u>ELFM</u> Series	-	<u>B1</u> Housings	-	<u>50</u> Range	<u>N</u> Units	-	<u>/Z1/L2M/R</u> Options
		<u>B1</u> <u>B2</u> T2E, T2M		(K used for 1000 Ex.: 1K)	N=Newtons L=Pounds		C, R or RQ L00F or L00M M00F or M00M V* W+ X Z1, Z2, Z4, or Z*

■ "Off-the-Shelf" Stocking Program

## Mounting & Wiring:



Entran®

ELFM LOAD CELLS

SPECIFICATION

ISSUE

PAGE

ELFMS001U

PB2

2 of 2