

# ELPM Series Load Cells

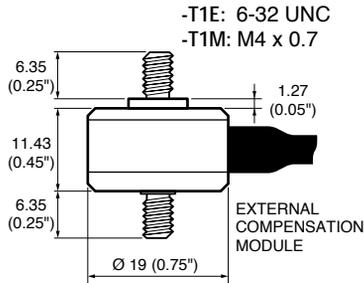


Precision Mini & Compact - Cross Stiff/High Stability

## ELPM Series Bodies

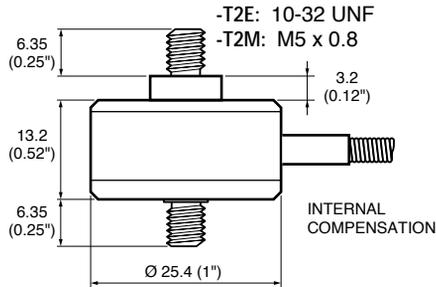
### ELPM-T1

5 to 10 Lbs  
25 to 50 N



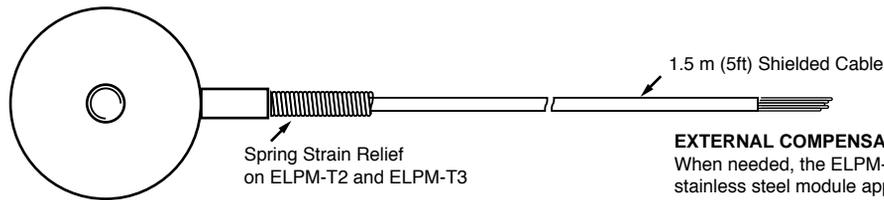
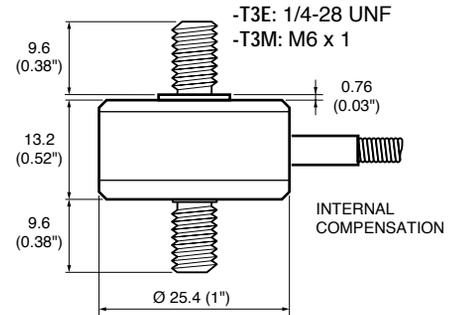
### ELPM-T2

25 to 100 Lbs  
125 to 500 N



### ELPM-T3

250 to 1,000 Lbs  
1,250 to 5,000 N



**EXTERNAL COMPENSATION MODULE:**  
When needed, the ELPM-T1 has a tubular stainless steel module approximately 38 mm (1.5") in length, located 46 cm (18") from the load cell.

Dim: mm (inches)

## ELPM Series

BODY TYPE	lb RANGES "FS"	N RANGES "FS"	OVERRANGE LIMIT	EXCITATION VDC	OUTPUT "FSO" nom.
ELPM-T1	±5	±25	1.5x FS	5	±2 mV/V
ELPM-T1	±10	±50	1.5x FS	5	±2 mV/V
ELPM-T2	<b>±25</b>	<b>±125</b>	1.5x FS	10	±2 mV/V
ELPM-T2	±50	±250	1.5x FS	10	±2 mV/V
ELPM-T2	<b>±100</b>	<b>±500</b>	1.5x FS	10	±2 mV/V
ELPM-T3	<b>±250</b>	<b>±1250</b>	1.5x FS	10	±2 mV/V
ELPM-T3	±500	±2500	1.5x FS	10	±2 mV/V
ELPM-T3	±1000	±5000	1.5x FS	10	±2 mV/V

**BRIDGE IMPEDANCE:** 350 Ω

**SENSING TECHNOLOGY:** Metallic Foil

**CROSS LOAD STIFFENERS:** Internal

**CROSS LOAD DAMAGE LIMIT:** 1.3 x FS

**DEFLECTION AT "FS":** 0.025 to 0.075mm (0.001 to 0.003") nom.

**NON-LINEARITY:** ±0.15%FSO (±0.2%FSO for Ranges above 250lbs & 1250N)

**HYSTERESIS:** ±0.15%FSO (±0.2%FSO for Ranges above 250lbs & 1250N)

**THERMAL ZERO SHIFT:** 0.01%FS/°C (0.005%FS/°F)

**THERMAL SENSITIVITY SHIFT (TSS):** 0.01%FS/°C (0.005%FS/°F)

**OPERATING TEMPERATURE:** -50°C to 120°C (-65°F to 250°F)

**COMPENSATED TEMPERATURE:** 15°C to 70°C (60°F to 160°F)

**ZERO OFFSET AT 20°C (70°F):** ±2%FSO typ.

**MODE:** +Signal Output for Tension

**CALIBRATION:** Tension (Optional Compression Calibration available)

**ENVIRONMENTAL:** Body: Waterproof Seal Lead Exit: Splashproof

■ "Off-the-Shelf" Stocking Program

Entran®



www.entran.com

**ELPM LOAD CELLS**  
Precision Miniature & Compact  
High Stability - Cross Stiff

**Entran Sensors & Electronics**

USA: Fairfield, NJ

UK: Garston, Watford, Herts, England

Europe: Les Clayes-sous-Bois, France

SPECIFICATION	ISSUE	PAGE
ELPMS001U	PB1	1 of 2

# ELPM specifications continued ...

## Options and Accessories:

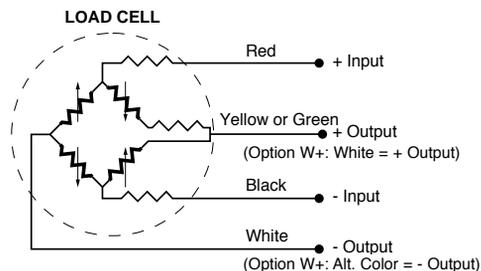
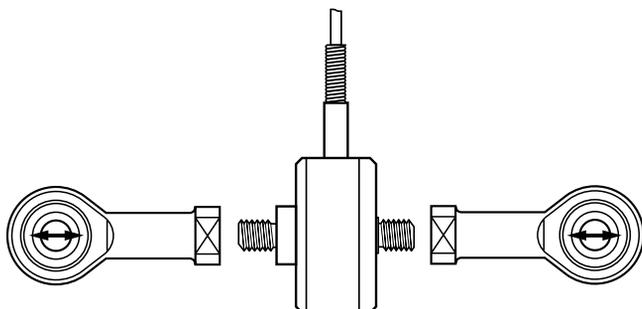
<b>COMPENSATED TEMPERATURE RANGES:</b>	<b>STANDARD</b>	<b>= 15°C to 70°C (60°F to 160°F)</b>
	Z1	= -20°C to 40°C (0°F to 100°F)
	Z2	= 0°C to 60°C (32°F to 140°F)
	Z4	= 40°C to 90°C (100°F to 200°F)
	Z*	= Non-standard, contact Entran
<b>EXCITATION VOLTAGE:</b>	V*	= Non-standard Excitation, contact Entran
<b>SPECIAL LEAD LENGTH:</b>	L00F	= Replace "00" with total length in feet.
	L00M	= Replace "00" with total length in meters.
<b>SPECIAL MODULE LOCATION:</b>	M00F	= Replace "00" with distance between sensor and module in feet.
	M00M	= Replace "00" with distance between sensor and module in meters.
<b>WATERPROOFING LEAD EXIT:</b>	X	= Short term waterproofing. Limited to 105°C (220°F).
<b>CONNECTOR WIRED TO LEADS:</b>	C	= Microtech type male (w/o mate)
	<b>RS</b>	= RJ Telephone type male (w/o mate)
	<b>RQ</b>	= Pins to mate with MM50 screw terminals
<b>WIRING COLOR CODE:</b>	<b>STANDARD</b>	<b>Yellow or Green = + Output Signal</b>
		<b>White = - Output Signal</b>
	W+	White = + Output Signal Alt. Color = - Output Signal
<b>MATING CONNECTORS FOR CONNECTOR OPTIONS:</b>	See Cable and Connector Bulletin	
<b>MOUNTING SCREWS:</b>	<b>STANDARD</b>	<b>Tension</b>
	Available	Tension & Compression calibration Compression calibration

## Model Number construction:

<b>ELPM</b> Series	-	<b>T1</b> Body	<b>M</b> Threads	-	<b>25</b> Range	<b>N</b> Units	-	<b>/L2M/RS</b> Options
		T1 T2 T3	<b>E = English</b> <b>M = Metric</b>		(K used for 1000 Ex.: 1K)	N=Newtons L=Pounds		C, <b>RS</b> or <b>RQ</b> L00F or L00M M00F or M00M W+ X Z1, Z2, Z4 or Z*

"Off-the-Shelf" Stocking Program

## Mounting & Wiring:



<b>Entran®</b>	<b>ELPM LOAD CELLS</b>	SPECIFICATION	ISSUE	PAGE
		ELPMS001U	PB2	2 of 2