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TECHNOLOGY GROUP

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ELFM & ELFS

Subminiature Button Shaped Load Cells

The ELFM & ELFS Subminiature Load Cells are a feat of engineering design. The ELFM comes in diameters down to 0.375" (9.5mm) and employs miniature metallic foil strain sensors for excellent stability and accuracy. The ELFS series utilizes micro-miniature semiconductor strain sensing elements for unamplified output signals up to 250mV full scale. Both sensors are fabricated from stainless steel for long lasting use.

Click here for the complete ELFM Series page Click here for the complete ELFS Series page

Pound Models	RANGE "FS" (Note 1)	Newton Models	RANGE "FS" (Note 1)	OVERRANGE	OUTPUT "FSO" (nom.)
ELFM-B1-5L	5 Lb	ELFM-B1-25N	25 N	2x FS	2mV/V
ELFM-B1-25L	25 Lb	ELFM-B1-125N	125 N	1.5x FS	2mV/V
ELFM-B2-100L	100 Lb	ELFM-B2-500N	500 N	1.2x FS	2mV/V
ELFS-B3-2L	2 Lb	ELFS-B3-10N	10 N	2x FS	100 mV
ELFS-B3-5L	5 Lb	ELFS-B3-25N	25 N	2x FS	200 mV
ELFS-B3-10L	10 Lb	ELFS-B3-50N	50 N	1.5x FS	250 mV
ELFS-B3-20L	20 Lb	ELFS-B3-100N	100 N	1.5x FS	250 mV
ELFS-B3-50L	50 Lb	ELFS-B3-250N	250 N	1.5x FS	250 mV
ELFS-B4-100L	100 Lb	ELFS-B3-500N	500 N	1.2x FS	250 mV

EXCITATION:	**ELFM:** 5VDC	**ELFS:** 15VDC
SENSING TECHNOLOGY:	**ELFM:** Metallic Foil	**ELFS:** Semiconductor
BRIDGE IMPEDANCE:	**ELFM:** 350 Ω.	**ELFS:** 1000 Ω nom.
INPUT IMPEDANCE:		**ELFS:** 2000 Ω nom.
NON-LINEARITY:	**ELFM:** ±0.25%FS	**ELFS:** ±1%FS
HYSTERESIS:	**ELFM:** ±0.25%FS	**ELFS:** ±1%FS
DEFLECTION AT FS typ.:	**ELFM:** <.003"	**ELFS:** <.0005
THERMAL ZERO SHIFT:	**ELFM:** ±0.01%/°F	**ELFS:** ±2.5mV/100°F
THERMAL SENSITIVITY SHIFT:	**ELFM:** ±0.01%/°F	**ELFS:** ±2.5%FS/100°F
OPERATING TEMPERATURE:	**ELFM:** -65 to 250°F	**ELFS:** -40 to 250°F
COMPENSATED TEMP.:	**ELFM:** 60 to 160°F	**ELFS:** 70 to 170°F
ZERO OFFSET AT 70°F (20°C):	**ELFM:** ±2%FS typ.	**ELFS:** ±15mV typ.

Notes: [1] Must be loaded perpendicular and on center, distributed over the loading surface.

SPECIFICATION NO.	ISSUE
ELFMS001U	WSC0/WSC0
ELFSS001U	WSC0/WSC0

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