

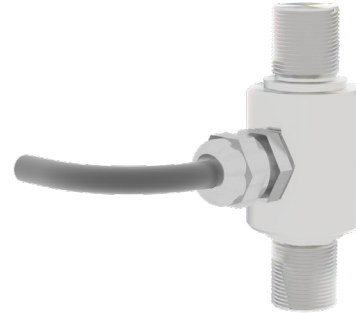
## MTFS MINIATURE TENSION FORCE LOAD CELL (U.S. & METRIC)

### FEATURES & BENEFITS

- Capacities from 1 to 100 kN (0.22 to 22.5K lbf)
- Very small geometry
- IP65 environmental protection

### SPECIFICATIONS

ACCURACY – (MAX ERROR)		
Nonlinearity – %FS		±0.3
Hysteresis – %FS		±0.3
Nonrepeatability – %RO		±0.08
Creep, in 30 min – %		±0.1
TEMPERATURE		
Effect on Zero – %RO / deg	°C	±0.02
Effect on Output – % / deg	°C	±0.02
Compensated Range	°C	0 to +60
	°F	+32 to +140
Operating Range	°C	-10 to +70
	°F	+14 to +158
ELECTRICAL		
Output – mV/V / %		1 ± 20
Excitation Voltage – VDC	≤ 5 kN (≤ 1.12K lbf)	2 - 6
	> 5 kN (> 1.12K lbf)	2 - 12
Bridge Resistance – Ohm		350
MECHANICAL		
Safe Overload – %RO		150
Deflection at Rated Capacity	mm	< 0.1
	in	< 0.004
IP Rating		IP65
Material		Stainless steel flexure aluminum cover



Model MTFS 100-5kN (Shown)

### OPTIONS

- Special temperature range (selected capacities)
- Standardized output
- 100% control signal (internal shunt cal)
- Add connector to cable
- Custom calibration
- Cable length
- Transducer Electronic Data Sheet (TEDS)

### CONNECTOR OPTIONS

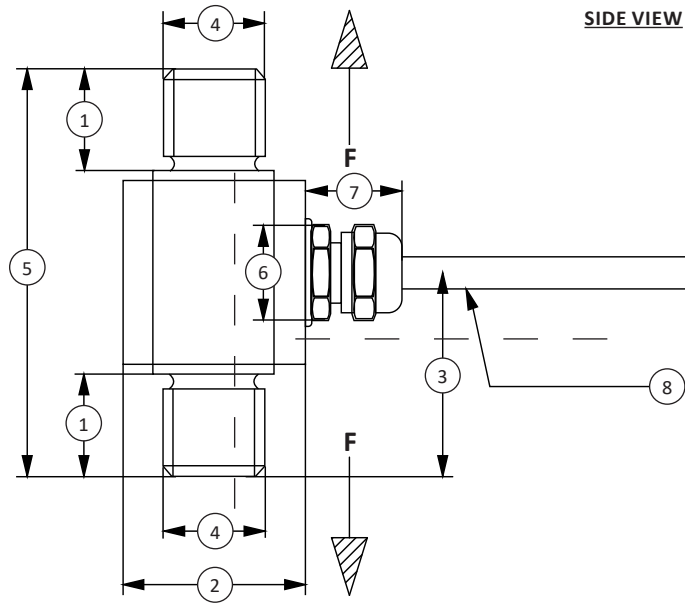
- (3 m) 10 ft integral cable

### ACCESSORIES

- Instrumentation

U.S. dimensions and capacities are provided for conversion only. Standard products have International System of Units (SI) capacities and dimensions.

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Notes:  
\* F indicates load direction

### DIMENSIONS

See Drawing	CAPACITY											
	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)
	1	225	5	1.12K	10	2.24K	20	4.49K	50	11.24K	100	22.48K
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
(1)	8	0.3	8	0.3	10	0.4	12	0.5	15	0.6	20	0.8
(2)	14	0.6	14	0.6	18	0.7	24	0.9	29	1.1	35	1.4
(3)	17.5	0.7	17.5	0.7	20	0.8	22.5	0.9	25	1.0	35	1.4
(4)	M5	M5	M8	M8	M10	M10	M12	M12	M16	M16	M24x2	M24x2
(5)	35	1.4	35	1.4	40	1.6	45	1.8	50	2.0	70	2.8
(6)	Ø10	Ø0.4	Ø10	Ø0.4	Ø10	Ø0.4	Ø10	Ø0.4	Ø10	Ø0.4	Ø10	Ø0.4
(7)	10	0.4	10	0.4	10	0.4	10	0.4	10	0.4	10	0.4
(8)	Ø3.2	Ø0.13	Ø3.2	Ø0.13	Ø3.2	Ø0.13	Ø3.2	Ø0.13	Ø3.2	Ø0.13	Ø3.2	Ø0.13