

ULC ULTRA LOW CAPACITY LOAD CELL (U.S. & METRIC)

FEATURES & BENEFITS

- Proprietary Interface temperature compensated strain gages
- Highest performance gram cell in the world
- Overload protected
- Safe side load overload to 5X capacity
- Low extraneous load sensitivity
- Low temperature effect on zero (0.002%/°F)
- Capacity down to 50 grams
- Tension and compression

SPECIFICATIONS

ACCURACY – (MAX ERROR)				
Nonlinearity – %FS				±0.05
Hysteresis – %FS				±0.05
Non-repeatability – %RO				±0.05
Creep, in 20 min – %	(0.5 N)			±0.1
	(0.11 lbf)			
	(All others)			±0.05
TEMPERATURE				
Compensated Range	°F			+15 to +115
	°C			-10 to +45
Operating Range	°F			-65 to +200
	°C			-55 to +90
Effect on Output – % MAX	°F			±0.001
	°C			±0.002
Effect on Zero – %RO MAX	°F			±0.002
	°C			±0.004
ELECTRICAL				
Rated Output – mV/V (Nominal)	(0.5 N)			±1.5
	(0.11 lbf)			
	(All others)			±2.0
Zero Balance – %RO (horiz.)				±2.0
Input Resistance – Ohms				350 (+35/-3.5)
Output Resistance – Ohms				350 (±3.5)
Excitation Voltage – VDC MAX				12
Insulation Resistance – Megohms				> 5000
MECHANICAL				
Calibration				Tension
Safe Axial Overload – %CAP				±1000
Safe Side Overload – %CAP				±500
Safe Load Axis Moment – %CAP x 1 in				±500
NATURAL FREQUENCY/DEFLECTION				
lbf	N	Deflection		Nat. Freq. (Hz)
		in	mm	
0.11	0.5	0.011	0.2794	120
0.22	1	0.011	0.2794	125
0.45	2	0.008	0.2032	200
Material		Aluminum		

STANDARD CONFIGURATION



Model ULC-1N (shown)

OPTIONS

- Cable length
- Transducer Electronic Data Sheets (TEDS)
- Custom calibration
- Standardized output
- Special temperature range

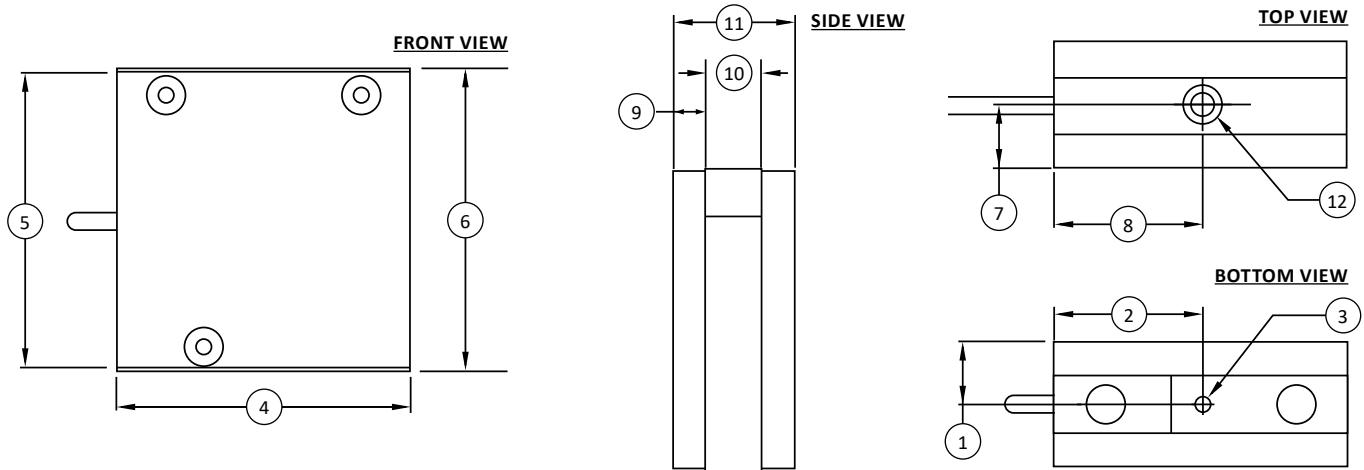
ACCESSORIES

- Instrumentation

CONNECTOR OPTIONS

- 1.5 m (5 ft) cable

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DIMENSIONS (CONTINUED)

See Drawing	CAPACITY	
	U.S. (lbf)	Metric (N*)
	0.11, 0.22, 0.45	0.5, 1, 2
	in	mm
(1)	1.45	10.6
(2)	8.00	25.1
(3)	4-40 UNC ↓ 0.19	4-40 UNC ↓ 4.8
(4)	3.75	50.3
(5)	0.10	49.8
(6)	1.35	50.8
(7)	0.53	10.6
(8)	0.75	25.1
(9)	2.50	5.8
(10)	3.88	9.5
(11)	0.72	21.2
(12)	¼-28 UNF ↓ 0.3	¼-28 UNF ↓ 8.1

* 1 Newton = 102 gram force
 Note: Other sizes are available – contact factory