

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		

Datasheet ULC v1.4 03-28-2018

STANDARD CONFIGURATION



Model ULC-1N (shown)

OPTIONS

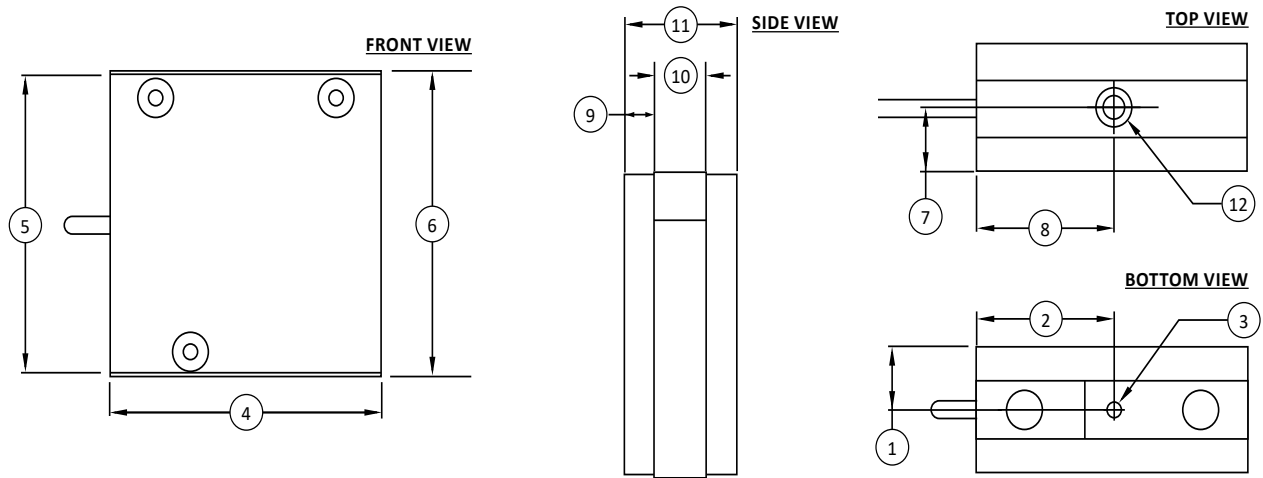
- Cable length
- Transducer Electronic Data Sheets (TEDS)
- Custom calibration
- Standardized output
- Special temperature range

ACCESSORIES

- Instrumentation

CONNECTOR OPTIONS

- 1.5 m (5 ft) cable



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 \downarrow 0.19	4-40 UNC \downarrow 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)	$\frac{1}{4}$ -28 UNF \downarrow 0.3	$\frac{1}{4}$ -28 UNF \downarrow 8.1

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