

Model ULC Ultra Low Capacity Load Cell

Why the Interface model ULC Ultra Low Capacity Load Cell is the best in class:

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

STANDARD CONFIGURATION

- 5 ft Cable (ULC-nnN)

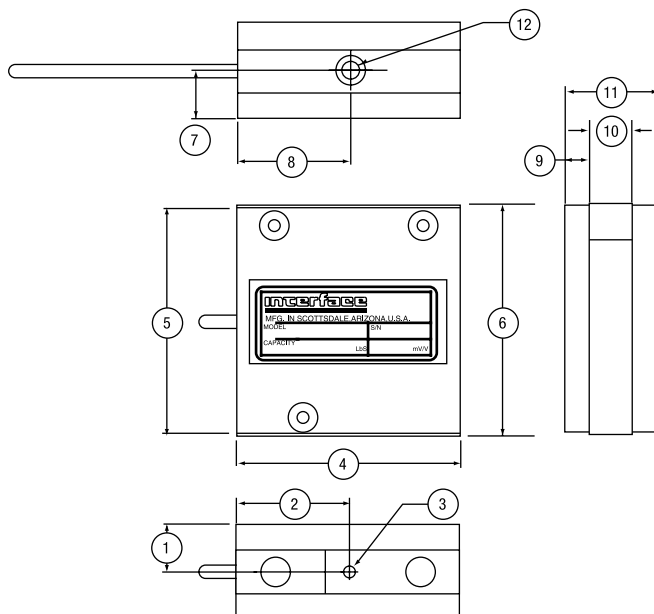
OPTIONS*

Extra Cable Length

ACCESSORIES*

Instrumentation

*See appendix for more technical information



SPECIFICATIONS

ACCURACY – (MAX ERROR)

Nonlinearity–% FS	.....±0.05
Hysteresis–% FS	.....±0.05
Nonrepeatability–% RO	.....±0.05
Creep, in 20 min–% (0.5N)	.....±0.1
(All Others)	.....±0.05

TEMPERATURE

Compensated Range–°F	.....15 to 115
Compensated Range–°C	.....-10 to 45
Operating Range–°F	.....-65 to 100
Operating Range–°C	.....-55 to 90
Effect on Output–%/°F – MAX	.....±0.001
Effect on Output–%/°C – MAX	.....±0.002
Effect on Zero–% RO/°F – MAX	.....±0.002
Effect on Zero–% RO/°C – MAX	.....±0.004

ELECTRICAL

Rated Output–mV/V (Nominal)(0.5N)	.....±1.5
(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 – MAX	.....12 VDC
Insulation Resistance – Megohms	.....> 5000

MECHANICAL

Calibration	.....Tension
Safe Axial Overload–% CAP	.....±1000
Safe Side Load Overload–% CAP	.....±500
Safe Load Axis Moment–% CAP x 1 in	.....±500
Cable length–ft	.....5
Natural Frequency/Deflection:	

N	Deflection (inches)	Nat. Freq. (Hertz)
0.5	0.011	120
1	0.011	125
2	0.008	200

DIMENSIONS

See Drawing	CAPACITY (N)*	
	0.5	1, 2
	inch	mm
①	0.42	10.6
②	0.99	25.1
③	4-40 UNC x 0.19 (4.8) Deep	
④	1.98	50.3
⑤	1.96	49.8
⑥	2.00	50.8
⑦	0.42	10.6
⑧	0.99	25.1
⑨	0.23	5.8
⑩	0.38	9.5
⑪	0.84	21.2
⑫	1/4-28 UNF x 0.32 (8.1) Deep	

*1 Newton = 102 gram force

Note: Other sizes are available – contact factory