

Model SPI Platform Scale Load Cell

Capacities 3-15 lbf



Why the Interface model SPI Platform Scale Load Cell is the best in class:

- Proprietary Interface temperature compensated strain gages
- .01% nonrepeatability
- 400% compression overload protection
- .0008%/°F temp. effect on output
- Eccentric load compensated

STANDARD CONFIGURATION

5 ft Integral Cable (SPI-nn)

OPTIONS

- Tension & Compression
- Overload Protection
- Extra Cable Length
- Standardized Output

ACCESSORIES

Instrumentation

Consult factory for more technical information

SPECIFICATIONS

ACCURACY – (MAX ERROR)

| | |
|---------------------------------------|--------|
| Nonlinearity—% FS | ±0.02 |
| Hysteresis—% FS | ±0.02 |
| Nonrepeatability—% RO | ±0.01 |
| Creep, in 20 min—% | ±0.025 |
| Eccentric load sensitivity—%/in | 0.012 |

TEMPERATURE

| | |
|------------------------------------|------------|
| Compensated Range—°F | 15 to 115 |
| Compensated Range—°C | -10 to 45 |
| Operating Range—°F | -65 to 200 |
| Operating Range—°C | -55 to 90 |
| Effect on Output—%/°F – MAX | ±0.0008 |
| Effect on Zero—% RO/°F – MAX | ±0.0015 |

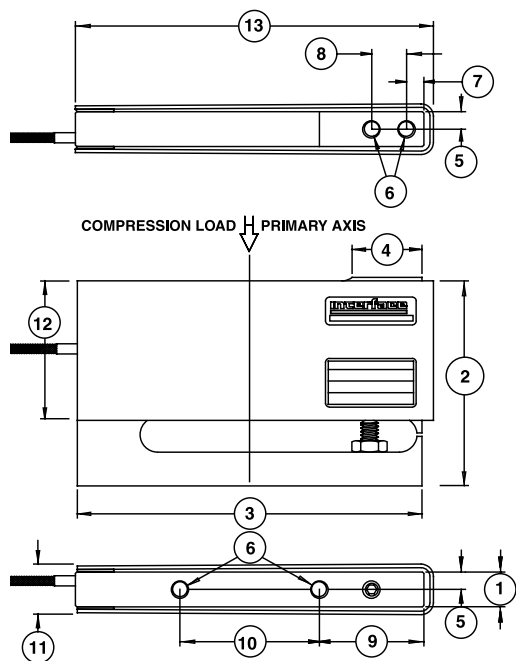
ELECTRICAL

| | |
|---------------------------------------|--------|
| Rated Output—mV/V (Nominal) | 3.0 |
| Zero Balance—% RO | ±5.0 |
| Bridge Resistance—Ohm (Nominal) | 350 |
| Excitation Voltage – MAX | 15 VDC |
| Insulation Resistance—Megohm | 5000 |

MECHANICAL

| | |
|------------------------------|---------|
| Calibration | Comp. |
| Safe Overload—% CAP | 400 |
| Cable length—ft | 5 |
| Deflection @ RO—inches | to .015 |

| | | | |
|-------------------------------|-------------------|-------------------|--|
| Natural Frequency/Deflection: | | | |
| lbf | Deflection | Nat. Freq. | |
| | (inches) | (hertz) | |
| 3 | .015 | 130 | |
| 7.5 | .009 | 220 | |
| 15 | .009 | 220 | |



DIMENSIONS

| See Drawing | CAPACITY (lbf) | | | | | |
|-------------|----------------|-------|---------------|-------|---------------|-------|
| | 3 | | 7.5 | | 15 | |
| | inch | mm | inch | mm | inch | mm |
| ① | 0.38 | 9.60 | 0.50 | 12.7 | 1.00 | 25.4 |
| ② | 2.99 | 75.9 | 2.99 | 75.9 | 2.99 | 75.9 |
| ③ | 5.00 | 127 | 5.00 | 127 | 5.00 | 127 |
| ④ | 1.00 | 25.4 | 1.00 | 25.4 | 1.00 | 25.4 |
| ⑤ | 0.19 | 4.80 | 0.25 | 6.40 | 0.5 | 12.7 |
| ⑥ | 10-32 UNF-2B | | 1/4-28 UNF-2B | | 1/4-28 UNF-2B | |
| ⑥ | 0.50 in deep | | 0.56 in deep | | 0.56 in deep | |
| ⑦ | 0.25 | 6.40 | 0.25 | 6.40 | 0.25 | 6.40 |
| ⑧ | 0.50 | 12.7 | 0.50 | 12.7 | 0.50 | 12.7 |
| ⑨ | 1.50 | 38.1 | 1.50 | 38.1 | 1.50 | 38.1 |
| ⑩ | 2.00 | 50.8 | 2.00 | 50.8 | 2.00 | 50.8 |
| ⑪ | 0.62 | 15.7 | 0.75 | 19.0 | 1.25 | 31.8 |
| ⑫ | 2.00 | 50.8 | 2.00 | 50.8 | 2.00 | 50.8 |
| ⑬ | 5.13 | 130.3 | 5.13 | 130.3 | 5.13 | 130.3 |