

# Model SSM-FDH High Temperature S-Type Load Cell

- Proprietary Interface temperature compensated strain gages
- Environmentally sealed
- 0.02% nonrepeatability
- 0.0008%/°F temp. effect on output
- 0.03% creep
- Tension and compression



## STANDARD CONFIGURATION

15 ft. Cable  
High Temperature Operating Range -65 to 320°F

## OPTIONS

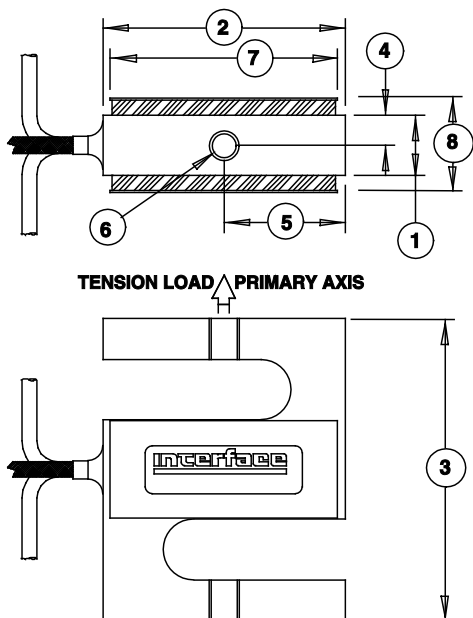
LEMO Connector  
Standardized Output  
Extra Cable Length

## ACCESSORIES

Instrumentation  
Mounting Hardware

## SPECIFICATIONS

|                                 |                        |                           |
|---------------------------------|------------------------|---------------------------|
| <b>ACCURACY – (MAX ERROR)</b>   |                        |                           |
| Nonlinearity–% FS               | ±0.05                  |                           |
| Hysteresis–% FS                 | ±0.03                  |                           |
| Nonrepeatability–% RO           | ±0.02                  |                           |
| Creep in 20 min–%               | ±0.03                  |                           |
| <b>TEMPERATURE</b>              |                        |                           |
| Compensated Range–°F            | 0 to 300               |                           |
| Compensated Range–°C            | -20 to 150             |                           |
| Operating Range–°F              | -65 to 320             |                           |
| Operating Range–°C              | -50 to 160             |                           |
| Effect on Output–%/°F – MAX     | ±0.0008                |                           |
| Effect on Output–%/°C – MAX     | ±0.0015                |                           |
| Effect on Zero– % RO/°F – MAX   | ±0.0008                |                           |
| Effect on Zero– % RO/°C – MAX   | ±0.0015                |                           |
| <b>ELECTRICAL</b>               |                        |                           |
| Rated Output–mV/V (Nominal)     | 3                      |                           |
| Zero Balance–%RO                | ±1                     |                           |
| Bridge Resistance–Ohm (Nominal) | 350                    |                           |
| Excitation Voltage–MAX          | 15 VDC                 |                           |
| Insulation Resistance–Megohm    | >5000                  |                           |
| <b>MECHANICAL</b>               |                        |                           |
| Calibration                     | Tension                |                           |
| Safe Overload–% CAP             | 150                    |                           |
| Cable Length–ft                 | 10                     |                           |
| Natural Frequency/Deflection:   |                        |                           |
| <b>lbf</b>                      | <b>Deflection (in)</b> | <b>Nat. Freq. (Hertz)</b> |
| 100                             | .004                   | 1850                      |
| 150                             | .004                   | 1850                      |
| 250                             | .006                   | 2350                      |



## DIMENSIONS

|             |                          |  |
|-------------|--------------------------|--|
| See Drawing | CAPACITY (lbf)           |  |
|             | 100, 150, 250, 500, 1000 |  |
| (1)         | 0.50                     |  |
| (2)         | 2.00                     |  |
| (3)         | 2.50                     |  |
| (4)         | 0.25                     |  |
| (5)         | 1.00                     |  |
| (6)         | 1/4-28 UNF-2B            |  |
| (7)         | 1.88                     |  |
| (8)         | 0.72                     |  |

SSM-FDH  
1/2016