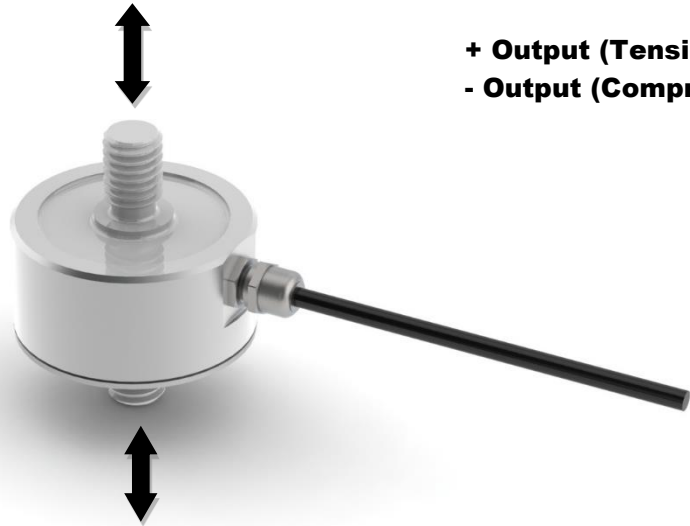


**RoHS**



**+ Output (Tension)**  
**- Output (Compression)**

## Product Description

Miniature Threaded In-Line Load Cells are strain gauge-based transducers with temperature compensation and excellent overall performance. This type measures tensile and compressive loads up to 5000N/1000lbf with better than  $\pm 0.25\%$  non-linearity.

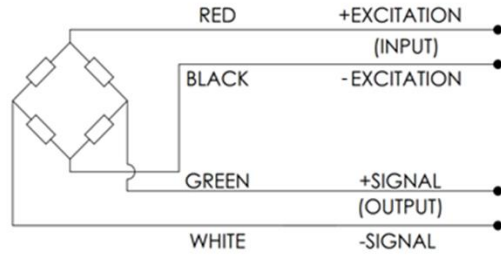
## Performance Specifications

Parameter	Range	Notes
Capacity	500N, 1000N, 2000N & 5000N	With metric threads as standard
	100lbf, 250lbf, 500lbf, 1000lbf	With unified threads as standard
Rated Output (RO)	2mV/V nom.	
Allowable maximum load	150% full scale	No effect on performance
Non-linearity	$\pm 0.25\%$ of RO MAX	
Hysteresis	$\pm 0.25\%$ of RO MAX	
Repeatability	$\pm 0.1\%$ of RO MAX	
Zero balance	5% of RO MAX	
Zero temp coefficient	0.018% FS / °C	
Span temp coefficient	0.036% of Load / °C	
Compensated temp range	-15 °C TO 70 °C	Wider range available to order
Operating temp range	-20 °C TO 80 °C	Wider range available to order
IP Rating	IP68	
Bridge resistance	700 ohm nom.	
Excitation	5v Recommended, 10v Max	

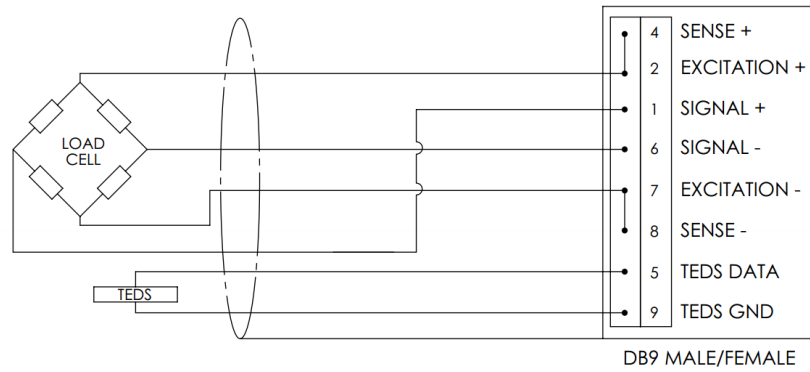
## Wiring

- The sensor is provided with a #32 AWG 4-conductor braided shielded cable with an outer jacket of 0.087" [2.2 mm] diameter, 5 ft [1.5m] long, with no connection between the shield and the sensor body.

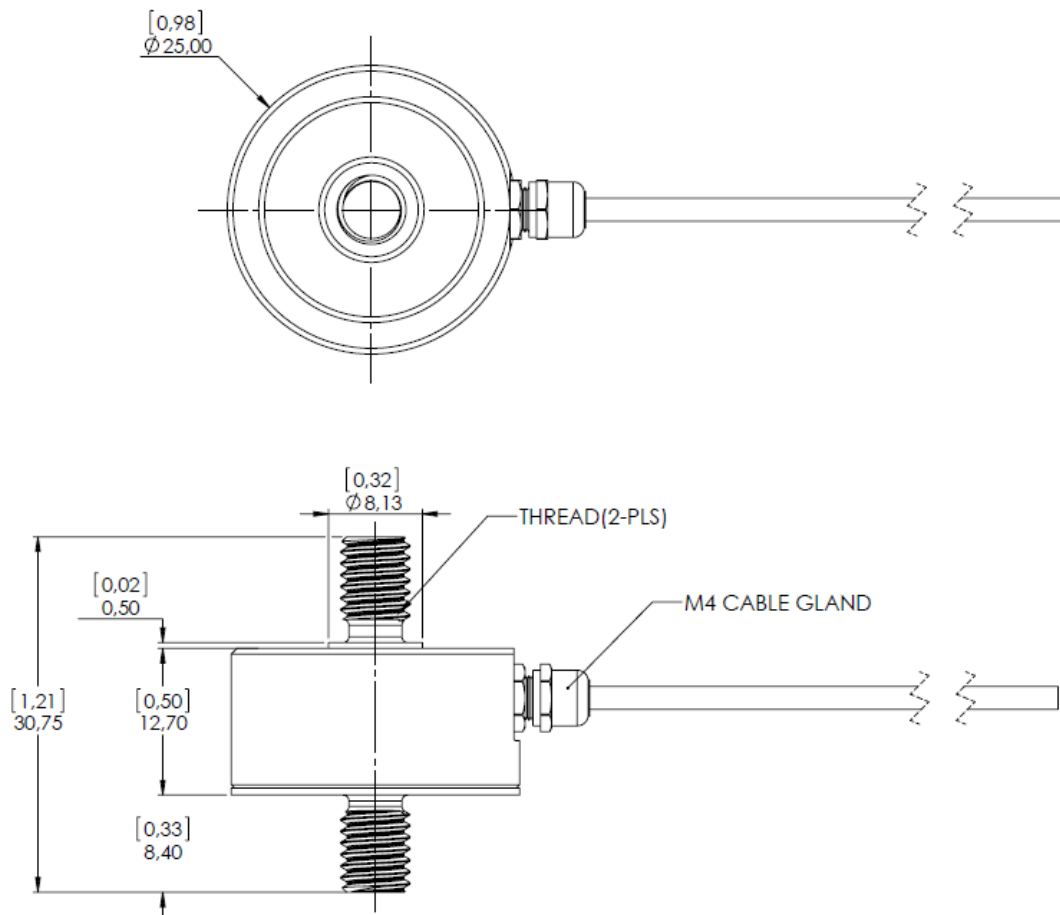
# In Line Load Cell Specification (AILC2)



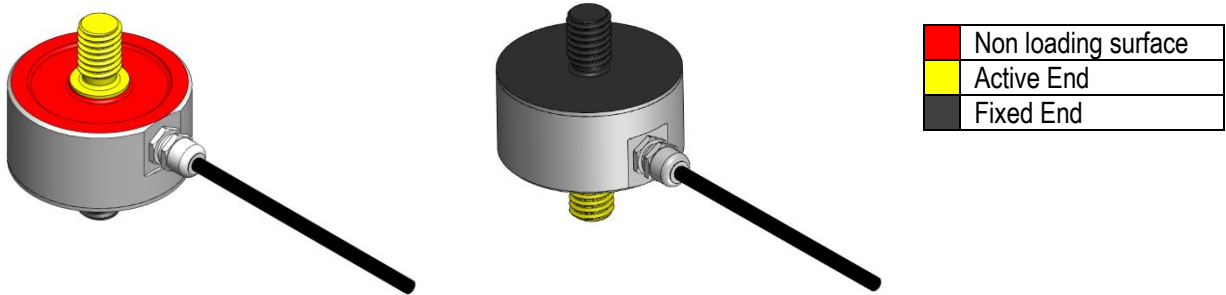
- Connector pin configuration as shown below (for the with-connector version)



## Dimensions - mm [inch]



# In Line Load Cell Specification (AIRC2)



Model	Capacity	Deflection Nom. mm [in]	Thread
AIRC2	500N	0.05 [.002]	M6x1-6g
AIRC2	1000N	0.05 [.002]	M6x1-6g
AIRC2	2000N	0.05 [.002]	M6x1-6g
AIRC2	5000N	0.10 [.004]	M6x1-6g

Model	Capacity	Deflection Nom. mm [in]	Thread
AIRC2	100lbf	0.05 [.002]	1/4"-28 UNF 2A
AIRC2	250lbf	0.05 [.002]	1/4"-28 UNF 2A
AIRC2	500lbf	0.05 [.002]	1/4"-28 UNF 2A
AIRC2	1000lbf	0.10 [.004]	1/4"-28 UNF 2A