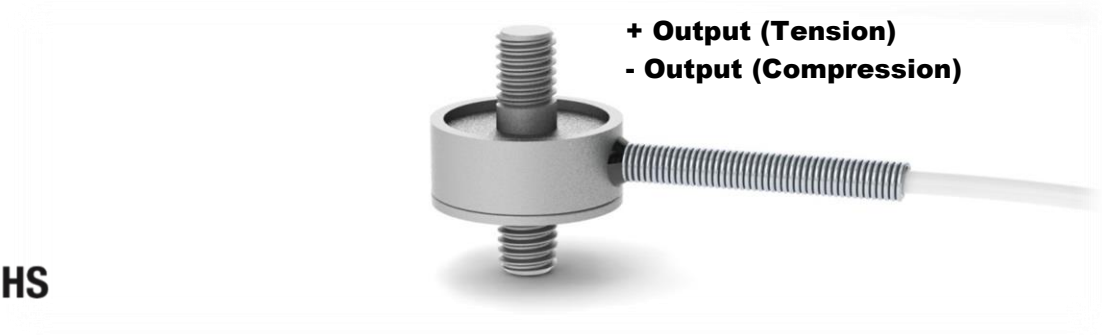


RoHS

Product Description

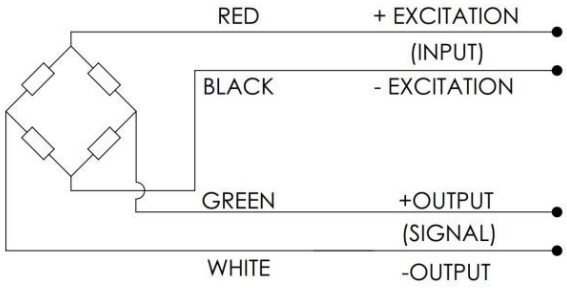
AILC1 Sub-miniature Threaded In-Line Load Cells are strain gauge-based transducers designed for applications in general test and measurements. This type measures tensile and compressive loads up to 100N with better than ±0.5% non-linearity.

Performance Specifications

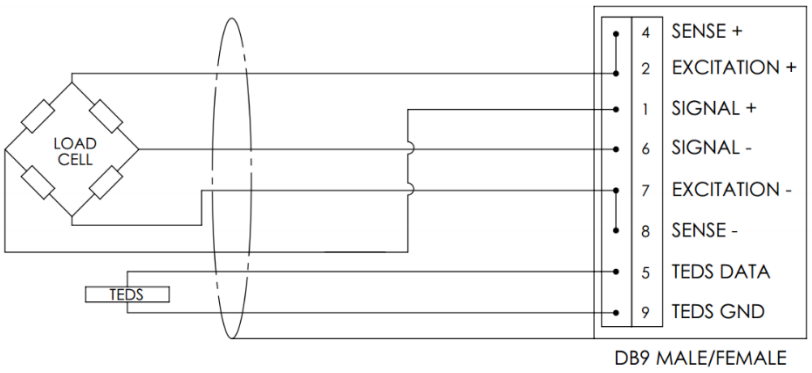
Parameter	Range	Notes
Capacity	50N and 100N	With metric threads as standard
Rated Output (RO)	2mV/V nom.	
Allowable maximum load	150% full scale	No effect on performance
Non-linearity	± 0.5% of RO MAX	
Hysteresis	± 0.5% of RO MAX	
Repeatability	± 0.1% of RO MAX	
Zero balance	10% of RO MAX	
Zero temp coefficient	0.036% FS / °C	
Span temp coefficient	0.036% FS / °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	IP64	
Material	17-4 PH stainless steel	
Bridge resistance	350 ohm nom.	
Excitation	5v Recommended, 10v Max	

Wiring

- The load button is provided with a #36 AWG 4-conductor braided shielded cable with outer jacket, 0.065" [1.63 mm] diameter, 5 ft [1.5 m] (for standard version) long, with no connection between the shield and the sensor body. For additional protection, the cable is contained within a stainless steel spring for strain relief purposes for the first 2" [50 mm].



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



Dimensions (mm)