



N

AILC1

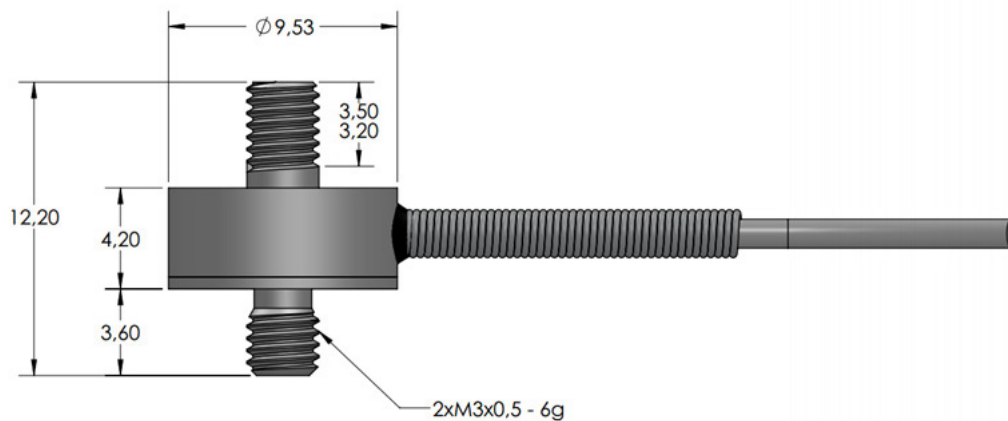
Sub-miniature Threaded In Line Load Cells



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 $\pm 0.5\%$ non-linearity.

DIMENSIONS

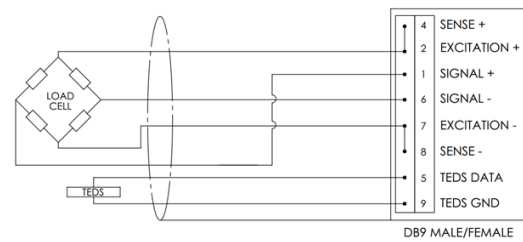
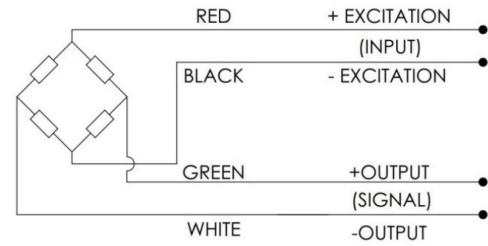




WIRING

• 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)



SPECIFICATION

PARAMETER	RANGE	NOTES
Capacity (N)	50 and 100	With metric threads as standard
Rated Output (RO) (mV/V)	2 nominal	
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 Temperature Coefficient (%)	0.036 FS/°C	
Span Temperature Coefficient (%)	0.036 of load/°C	
Compensated Temperature (°C)	-15 to +70	Wider range available to order
Operating Temperature (°C)	-20 to +80	Wider range available to order
IP Rating	IP64	
Material	Stainless Steel	
Bridge Resistance (ohm)	350 nominal	
Excitation (V)	5, 10	