

GWMC SERIES IN LINE LOAD CELL 200N - 5000N (METRIC)

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 with better than $\pm 0.25\%$ non-linearity.

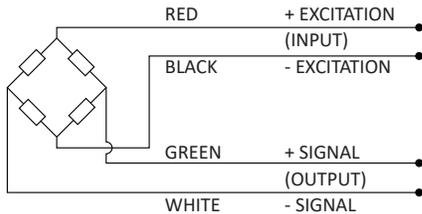
STANDARD CONFIGURATION



Model GWMC-200N-N-3 (Shown)

WIRING DIAGRAM

The sensor is provided with a #32 AWG 4-conductor braided shielded cable with an outer jacket of 2.2 mm diameter, 2m 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 25 mm.

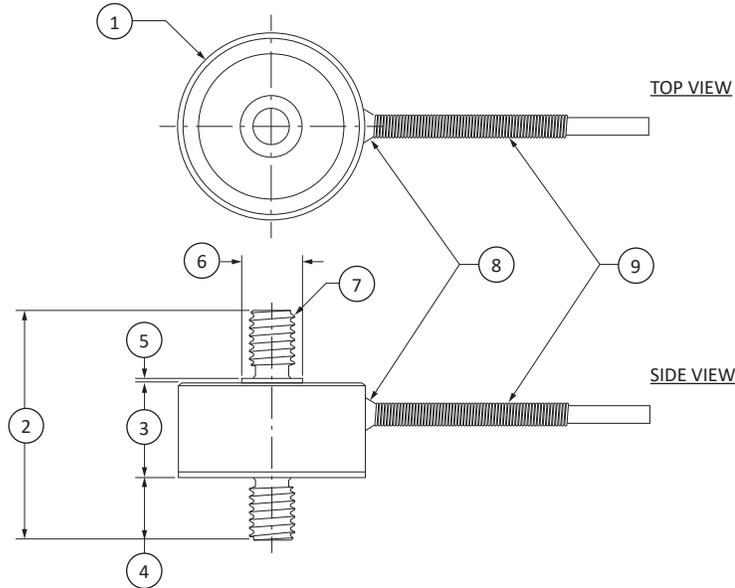


SPECIFICATIONS

PARAMETER	RANGE	NOTES
Capacity	200N, 500N, 1000N, 2000N & 5000N	With metric threads as standard
Rated Output (RO)	2mV/V nominal	
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% FS / °C	
Compensated temperature range	-15 °C TO 70 °C	Wider range available to order
Operating temperature range	-20 °C TO 80 °C	Wider range available to order
IP Rating	IP64	
Bridge resistance	700 ohm nominal	
Excitation	5v Recommended, 10v Max	

* All dimensions are in mm.
** This product is not available in the United States.

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DIMENSIONS

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Ø25.00	30.75	12.70	8.40	0.50	Ø8.13	M6x1-6g x 2	Epoxy Fillet	Strain Relief Spring

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+ Output (Tension)
 - Output (Compression)



Capacity	Deflection Nominal	Thread
200N	0.05 [.002]	M6x1-6g
500N	0.05 [.002]	M6x1-6g
1000N	0.05 [.002]	M6x1-6g
2000N	0.05 [.002]	M6x1-6g
5000N	0.05 [.002]	M6x1-6g