

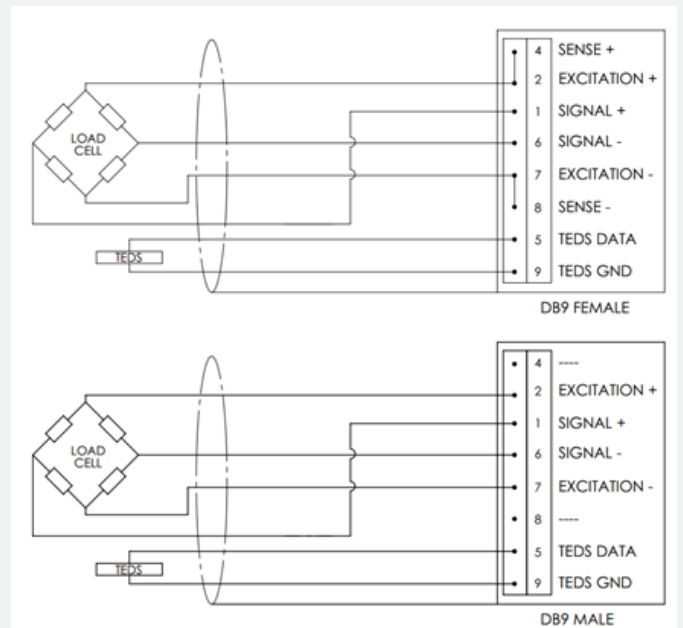
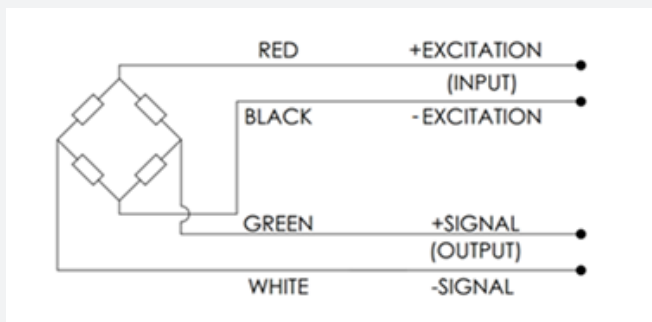
# LOAD WASHER

The Load cell is a stainless steel sub miniature strain gauge based transducer with compensated temperature performance. This type provides measurements up to 20000lbf with better than  $\pm 0.5\%$  (full scale) non-linearity.



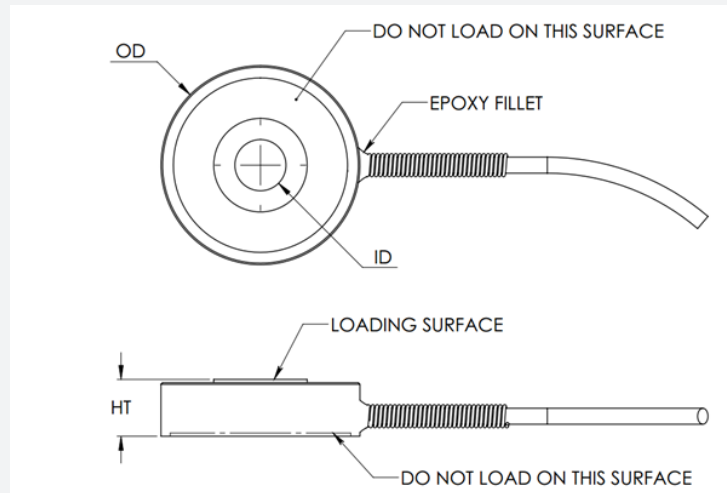
## WIRING

- Model LW1 is provided with a #32 AWG 4-conductor braided shielded cable with outer jacket, 0.086" [2.2 mm] diameter. Model LW2, LW3 & LW4 are provided with a #28 AWG 4-conductor braided shielded cable with outer jacket, 0.126" [3.2 mm] diameter. There is 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.
- Standard wire configuration as shown below.
- Standard cable lengths are 3ft, 5ft and 10ft. See Order Details section.
- These load washers are offered with DB9 Male, DB9 Female and without connector. See Order Details section.
- For connector versions, pin configuration as shown below.





# DIMENSIONS CONTINUED



## ORDER DETAILS

To order a specific load washer required, compile and quote a unique part number from the example below. Special cable lengths and pin configurations available upon request

Model	Screw Size (inch)	Capacity (lbf)	Connector type	Cable length (ft)
<b>ALWX</b>	<b>X/X</b>	<b>XXXXX</b>	<b>X</b>	<b>X</b>
5010-10*	1/8	5	M - DB9 Male	3
5010-10*	3/16	10	F - DB9 Female	5
LW3*	1/4	25	N - Without connector	10
LW4*	5/16	50		
	3/8	100		
	7/16	250		
	1/2	500		
	9/16	1000		
	5/8	2000		
	3/4	5000		
	7/8	10000		
	1	20000		
	1 ¼			
	1 ½			

\* Optional

Example: **5010-10-1/4-F-5**

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# SPECIFICATION

PARAMETER	RANGE
Capacity	5lbf – 2klbf
Rated Output (RO)	0.2mV/V (5lbf), 0.4mV/V (10lbf), 1mV/V (25lbf), 2 mV/V (50-20000lbf) nom.
Safe Overload	150% of RO
Zero Balance	±2% of RO
Excitation (VDC or VAC)	7 max.
Bridge Resistance	700 Ω nom.
Non-Linearity	±0.5% of RO
Hysteresis	±0.5% of RO
Non-Repeatability	±0.1% of RO
Temp. Shift Zero	±0.005% of RO/°F (±0.01 of RO/°C)
Temp. Shift Span	±0.005% of load/°F (±0.01 of load/°C)
Compensated Temp.	5 to 160°F (-15 to 71°C)
Operating Temp.	5 to 176°F (-15 to 80°C)
Material	Stainless Steel
IP Rating	IP64
Calibration Test Excitation	5V, 10V
Calibration (std.)	5 pt. compression

	WEIGHT (NOM.)	DEFLECTION (NOM.)
LW1	0.13lb [60g]	.002" [0.05mm]
LW2	0.22lb [100g]	.002" [0.05mm]
LW3	0.50lb [227g]	.002" [0.05mm]
LW4	1.65lb [750g]	.002" [0.05mm]

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