

HERMETIC LOAD WASHER

Hermetic Load Washer is a stainless steel strain gauge based load washer with compensated temperature performance.

This type is fully laser welded and provides measurements up to 20,000 lbf with better than $\pm 0.5\%$ (full scale) non-linearity.



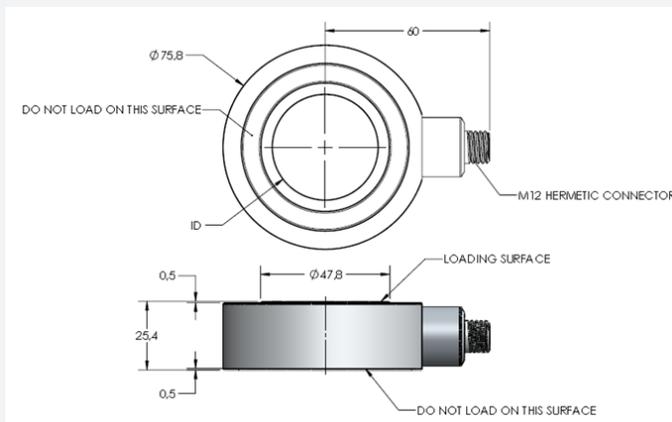
WIRING



NOTE: Voltage, current loop or digital output versions are also available on request.

PIN	FUNCTION
1	Excitation +
2	Excitation -
3	Signal +
4	Signal -
5	No connection
6	No connection
7	No connection
8	No connection

DIMENSIONS



MODEL	ID	SCREW SIZE
ALW4-1	3.45mm [.136"]	1/8"
	5.11mm [.201"]	3/16"
	6.76mm [.266"]	1/4"
	8.43mm [.332"]	5/16"
	10.08mm [.397"]	3/8"
	11.91mm [.469"]	7/16"
	13.49mm [.531"]	1/2"
	15.09mm [.594"]	9/16"
	16.66mm [.656"]	5/8"
	19.84mm [.781"]	3/4"
	23.01mm [.906"]	7/8"
	26.19mm [1.031"]	1"
	32.54mm [1.281"]	1 1/4"
	38.89mm [1.531"]	1 1/2"

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HERMETIC LOAD WASHER

SPECIFICATION

PARAMETER	RANGE
Capacity (lbf)	1K, 2K, 5K, 7.5K, 10K, 20K
Rated Output (RO) (mV/V)	2 nominal
Safe Overload (%)	150 of RO
Zero Balance (%)	±5 of RO
Excitation (VDC or VAC) (V)	5 (recommended), 10 max.
Bridge Resistance	700 Ω nom.
Non-Linearity (%)	±0.5 of RO
Hysteresis (%)	±0.5 of RO
Non-Repeatability (%)	±0.1 of RO
Temperature Shift Zero	±0.01 of RO/°C
Temperature Shift Span	±0.01 of load/°C
Compensated Temperature (°C)	-15 to +71
Operating Temperature (°C)	-20 to +80
Material	Stainless Steel
IP Rating	IP68
Calibration Test Excitation (V)	5, 10
Calibration (std)	5 pt. compression
Weight (g)	750 nominal
Deflection (mm)	0.05 [.002"] nominal
Connector	8-pin M12 male

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ORDER DETAILS

To order a specific load washer required, compile and quote a unique part number from the example below.

			Screw Size (inch)		Capacity (lb)	
ALW4	-	1	-	X/X	-	XXXXX
				1/8		1,000
				3/16		2,000
				1/4		5,000
				5/16		7,500
				3/8		10,000
				7/16		20,000
				1/2		
				9/16		
				5/8		
				3/4		
				7/8		
				1		
				1 ¼		
				1 ½		

Example: **ALW4-1-3/4-10,000**

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