

# LWHP14 LOAD WASHER (U.S. & METRIC)

## FEATURES & BENEFITS

- Capacities from 0.05 to 100 kN (11.2 to 22.5K lbf)
- Ideal for applications requiring a thru-hole

## OPTIONS

- Cable length
- Standardized output
- Add connector to cable
- Custom calibration
- Special temperature range
- 100% control signal (internal shunt calibration)
- Transducer Electronic Data Sheet (TEDS)

## CONNECTOR OPTIONS

- 3 m (10 ft) integral cable

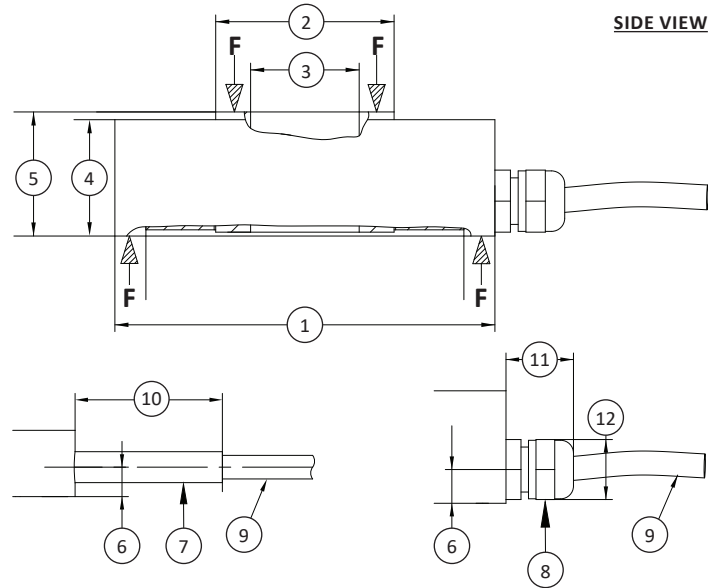
## ACCESSORIES

- Instrumentation

## STANDARD CONFIGURATION



Model LWHP14 (Shown)



Notes:  
\* F indicates load direction

## DIMENSIONS

See Drawing	CAPACITY							
	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)
	0.05, 0.1, 0.2, 0.5	11.2, 22.5, 45, 112	1, 2, 5, 10	225, 450, 1.12K, 2.25K	20, 50	4.5 K, 11.2K	100	22.5K
	mm	in	mm	in	mm	in	mm	in
1	Ø30	Ø1.2	Ø38	Ø1.5	Ø49	Ø1.9	Ø78	Ø3.1
2	Ø9.0	Ø0.35	Ø13.5	Ø0.53	Ø23	Ø0.9	Ø42	Ø1.7
3	Ø5.2	Ø0.20	Ø7	Ø0.3	Ø14	Ø0.6	Ø27	Ø1.1
4	8	0.3	9	0.4	15	0.6	24	0.9
5	9.5	0.37	10	0.4	16	0.6	25	1.0
6	4.5	0.18	4.0	0.16	4.5	0.18	7.5	0.30
7	X	X	X	X				
8					X	X	X	X
9	Ø3.2	Ø0.13	Ø3.2	Ø0.13	Ø3.2	Ø0.13	Ø3.2	Ø0.13
10	22	0.9	22	0.9	22	0.9	22	0.9
11	9	0.4	9	0.4	9	0.4	9	0.4
12	Ø10	Ø0.4	Ø10	Ø0.4	Ø10	Ø0.4	Ø10	Ø0.4

U.S. dimensions and capacities are provided for conversion only. Standard products have International System of Units (SI) capacities and dimensions.

# LWHP14 LOAD WASHER (U.S. & METRIC)

## SPECIFICATIONS

CAPACITY	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	Metric (kN)	U.S. (lbf)	
		0.05, 0.1, 0.2, 0.5	11.2, 22.5, 45, 112	1, 2, 5, 10	225, 450, 1.12K, 2.25K	20, 50	4.5K, 11.2K	100	22.5K
<b>ACCURACY – (MAX ERROR)</b>									
Nonlinearity – %FS					±0.5				
Hysteresis – %FS					±0.5				
Nonrepeatability – %RO					±0.2				
Creep, in 30 min – %					±0.1				
<b>TEMPERATURE</b>									
Effect on Zero – %RO / deg	°C					±0.02			
Effect on Output – % / deg	°C					±0.02			
Compensated Range	°C					0 to +60			
	°F					+32 to +140			
Operating Range	°C					-10 to +70			
	°F					+14 to +158			
<b>ELECTRICAL</b>									
Output – mV/V ± %					1 ± 20				
Excitation Voltage – VDC					2 - 12				
Bridge Resistance – Ohm					350				
<b>MECHANICAL</b>									
Safe Overload – %RO					150				
Deflection at Rated Capacity	mm					< 0.15			
	in					< 0.006			
IP Rating					IP60				
Weight	kg	0.2	0.2	0.3	0.8				
	lbs	0.44	0.44	0.66	1.76				
Material	Stainless steel								