

# LWPF2 PRESS FORCE LOAD CELL (U.S. & METRIC)

## FEATURES & BENEFITS

- Capacities from 100 kN to 600 kN
- Short height
- Large thru-hole
- For press-force monitoring

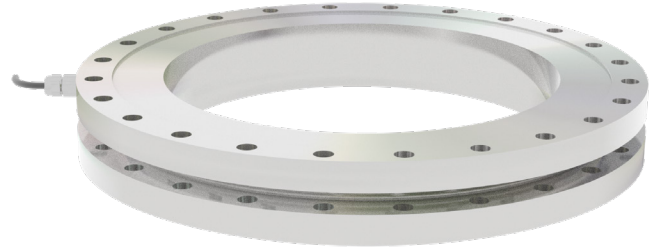
## SPECIFICATIONS

| ACCURACY – (MAX ERROR)        |    |                            |
|-------------------------------|----|----------------------------|
| Nonlinearity – %FS            |    | ±0.5                       |
| Hysteresis – %FS              |    | ±0.5                       |
| Nonrepeatability – %RO        |    | ±0.1                       |
| Creep, in 30 min – %          |    | ±0.1                       |
| TEMPERATURE                   |    |                            |
| Effect on Zero – %RO / deg    | °C | ±0.02                      |
| Effect on Output – % / deg    | °C | ±0.02                      |
| Compensated Range             | °C | 0 to +60                   |
|                               | °F | 0 to +140                  |
| Operating Range               | °C | -10 to +70                 |
|                               | °F | +14 to +158                |
| ELECTRICAL                    |    |                            |
| Output – mV/V                 |    | 1 ±20%                     |
| Excitation Voltage – VDC      |    | 2 - 12                     |
| Bridge Resistance – Ohm       |    | 700                        |
| Electrical Connection – Cable | m  | 3                          |
|                               | ft | 10                         |
| MECHANICAL                    |    |                            |
| Safe Overload – %RO           |    | 150                        |
| Deflection at Rated Capacity  | mm | < 0.15                     |
|                               | in | < 0.006                    |
| IP Rating                     |    | IP60                       |
| Material                      |    | Stainless steel / Aluminum |

## OPTIONS

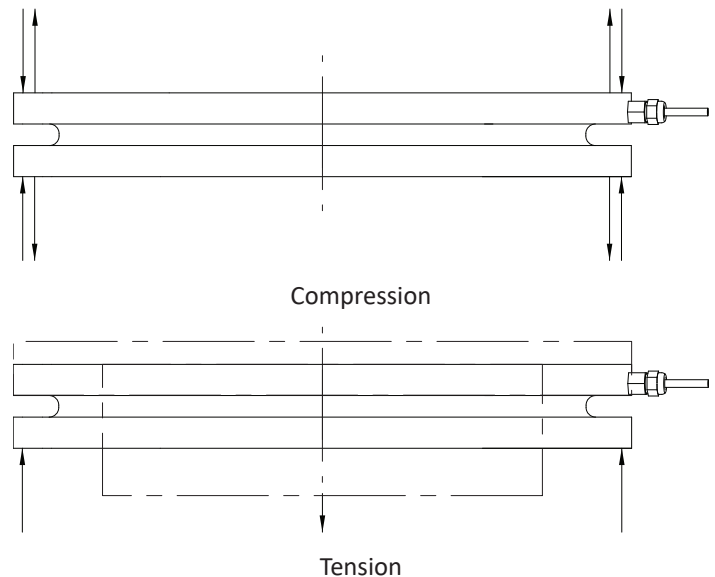
- Extended temperature range (-40 to +150°C or -40 to +302°F)
- Internal Shunt Resistor – 100% output

## STANDARD CONFIGURATION



Model LWPF2 (shown)

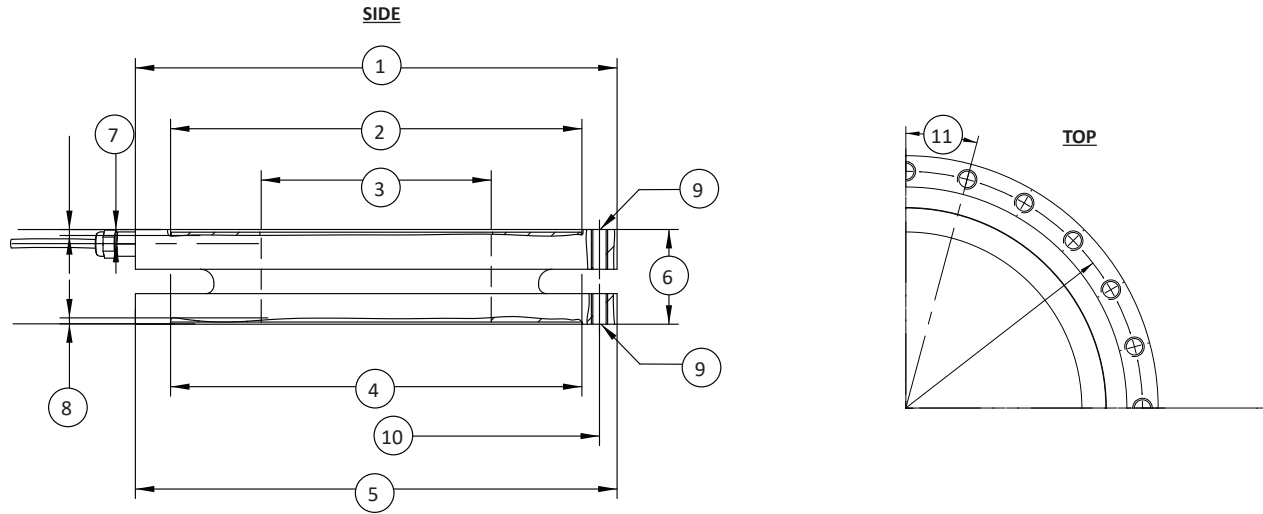
## LOADING DIAGRAM



Note: Loading on this transducer must take place through connections with the mounting holes

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

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## DIMENSIONS

| See Drawing | CAPACITY    |            |             |            |             |            |             |            |             |            |
|-------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|
|             | Metric (kN) | U.S. (lbf) | Metric (kN) | U.S. (lbf) | Metric (kN) | U.S. (lbf) | Metric (kN) | U.S. (lbf) | Metric (kN) | U.S. (lbf) |
|             | 100         | 22.5K      | 200         | 45K        | 300         | 67.4K      | 400         | 90K        | 600         | 135K       |
|             | mm          | in         | mm          | in         | mm          | in         | mm          | in         | mm          | in         |
| (1)         | Ø178        | Ø7.0       | Ø196        | Ø7.7       | Ø258        | Ø10.2      | Ø258        | Ø10.2      | Ø320        | Ø12.6      |
| (2)         | Ø152        | Ø6.2       | Ø170        | Ø6.7       | Ø226        | Ø8.9       | Ø226        | Ø8.9       | Ø266        | Ø10.5      |
| (3)         | Ø85         | Ø3.3       | Ø120        | Ø4.7       | Ø180        | Ø7.1       | Ø170        | Ø6.7       | Ø205        | Ø8.1       |
| (4)         | Ø152        | Ø6.0       | Ø170        | Ø6.7       | Ø226        | Ø8.9       | Ø226        | Ø8.9       | Ø266        | Ø10.5      |
| (5)         | Ø178        | Ø7.0       | Ø196        | Ø7.7       | Ø258        | Ø10.2      | Ø258        | Ø10.2      | Ø320        | Ø12.6      |
| (6)         | 35          | 1.4        | 35          | 1.4        | 35          | 1.4        | 45          | 1.8        | 60          | 2.4        |
| (7)         | 5.4         | 0.21       | 7           | 0.3        | 8           | 0.3        | 8           | 0.3        | 12.5        | 0.5        |
| (8)         | 1           | 0.04       | 1           | 0.04       | 1           | 0.04       | 1           | 0.04       | 1           | 0.04       |
| (9)         | M6x24       |            | M8x24       |            | M10x24      |            | M12x24      |            | M16x24      |            |
| (10)        | Ø165        | Ø6.5       | Ø182        | Ø7.2       | Ø242        | Ø9.5       | Ø242        | Ø9.5       | Ø290        | Ø11.4      |



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\* U.S. dimensions and capacities are provided for conversion only. Standard product will be sold in kN and Metric dimensions. U.S. capacities available upon special request and at an additional cost.