

## Hollowed Load Cell



**To endure field applications, these transducers feature a waterproof design, and high accuracy**

The BL-E series hollowed load cells are designed to accurately measure the load applied to a ground anchor, PC anchor and the support of a tunnel arch. To endure field applications, these transducers feature a waterproof design and high accuracy.

● Load measurement ● 1 MN, 2 MN

### Specifications

#### Performance

Rated Capacity	See table below.
Nonlinearity	BL-100TE: Within $\pm 0.5\%$ RO BL-200TE: Within $\pm 1.5\%$ RO
Hysteresis	Within $\pm 1\%$ RO
Rated Output	1 mV/V or more

#### Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.1\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.1\%$ /°C

#### Electrical Characteristics

Safe Excitation	10 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 $\Omega \pm 2\%$
Output Resistance	350 $\Omega \pm 2\%$
Cable	4-conductor (0.5 mm <sup>2</sup> ) chloroprene shielded cable, 9.6 mm diameter by 1 m long, bared at the tip (Shield wire is not connected to the case.)

#### Mechanical Properties

Safe Overloads	120%
Weight	See table below.

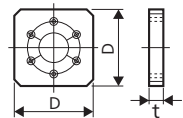
#### Optional Accessories

Saddle for BL-type Load Cells

Dimensions (D) and (t) are available in the following range depending on rated capacity.  
D = 100 × 100 mm to 400 × 400 mm  
t = 20 to 50 mm

● Inform us the dimensions of the part of equipment which contacts with the saddle.

\*A round saddle is also available for option.

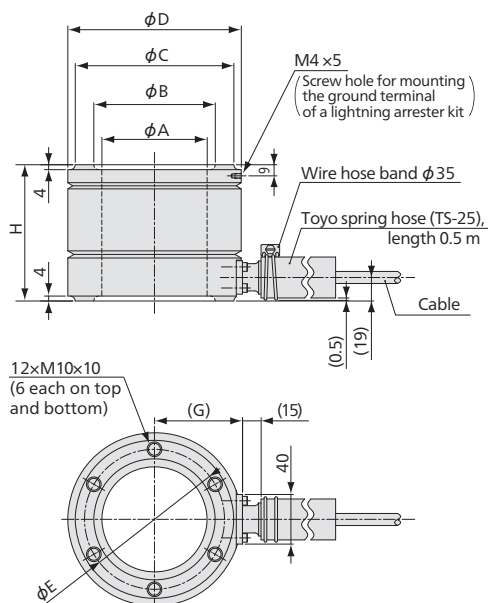


Models	Rated Capacity	$\phi A$	$\phi B$	$\phi C$	$\phi D$	$\phi E$	(G)	H	Weight (Approx.)
● BL-100TE	1 MN	85 <sup>+3</sup> <sub>0</sub>	98 <sup>+1.5</sup>	128 <sup>+1.5</sup>	140 <sup>+2</sup>	113 <sup>+0.3</sup>	71	110 <sup>+0.5</sup>	6.6 kg
● BL-200TE	2 MN	133 <sup>+3</sup> <sub>0</sub>	150 <sup>+1.5</sup>	190 <sup>+1.5</sup>	210 <sup>+2</sup>	170 <sup>+0.5</sup>	106	120 <sup>+0.5</sup>	14.1 kg

● For delivery date, please contact us.

$\phi A$ : Hollow diameter

### Dimensions



### Application Example

