

# BL-B

## Hollowed Load Cell

●Load measurement ●5 to 500kN



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

The BL-B 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.

Models	Rated Capacity	Hollow Diameters( $\phi$ )	Weight (Approx.)
●BL-500KB	5 kN	26	3 kg
●BL-1TB	10 kN		
●BL-2TB	20 kN		
●BL-5TB	50 kN		
●BL-10TB	100 kN	26	7.5 kg
●BL-20TB	200 kN	43	1.6 kg
●BL-50TB	500 kN	80	3.3 ka

●For delivery date, please contact us.

## ■ Dimensions

## Specifications

## Performance

<b>Rated Capacity</b>	See table below.
<b>Nonlinearity</b>	BL-500KB to 10TB: Within $\pm 1\%$ RO
	BL-20TB: Within $\pm 2\%$ RO
	BL-50TB: Within $\pm 0.6\%$ RO
<b>Hysteresis</b>	Within $\pm 1\%$ RO
<b>Rated Output</b>	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

<b>Safe Excitation</b>	10 V AC or DC
<b>Recommended Excitation</b>	1 to 10 V AC or DC
<b>Input Resistance</b>	350 $\Omega \pm 2\%$
<b>Output Resistance</b>	350 $\Omega \pm 2\%$
<b>Cable</b>	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

<b>Safe Overloads</b>	120%
<b>Weight</b>	See table below.

### Optional Accessories

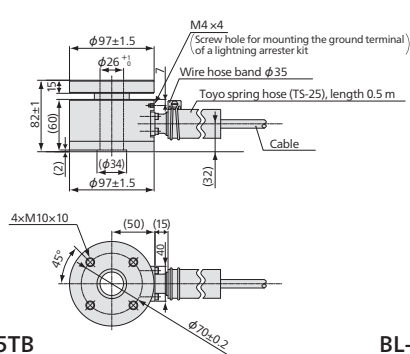
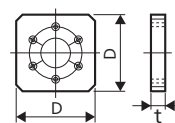
### Saddle for BL-type Load Cells

Dimensions (D) and (t) are available in the following range depending on rated capacity.

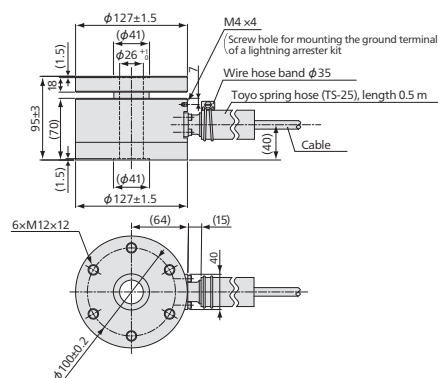
D = 100 x 100 mm  
t = 20 to 50 mm

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

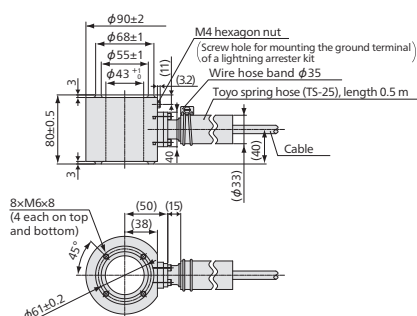
\*A round saddle is also available for option.



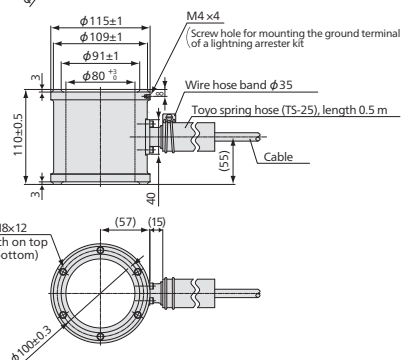
BL-500KB to 5TB



BL-10TB



BL-20TB



BL-50TB