BL-E
Hollowed Load Cell
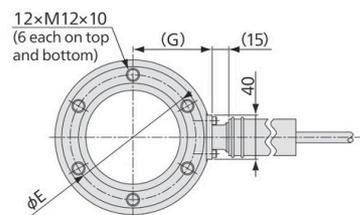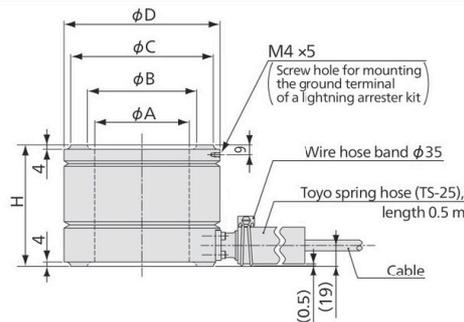

Large capacity type ideal for field measurement

● Rated capacity: 1, 2 MN

These center hole load cells measure ground anchor and PC anchor loads, and also measure loads applied during tunnel arch support work.
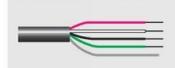
Specifications

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

Environmental Characteristics	
Safe Temperature	−20 to 70℃
Compensated Temperature	−10 to 60℃
Temperature Effect on Zero	Within ±0.1% RO/°C
Temperature Effect on Output	Within ±0.1%/°C

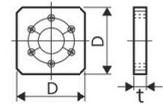| Electrical Characteristics	
Safe Excitation	10 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω ±2%
Output Resistance	350 Ω ±2%
Cable	4-conductor (0.5 mm²) chloroprene shielded cable, 9.6 mm diameter by 1 m long, bared at the tip (Shield wire is not connected to the case.)

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 x 100 mm to 400 x 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

Model	Rated Capacity	φA	φB	φC	φD	φE	(G)	H	Weight (Approx.)
BL-100TE	1 MN	85^{+3}_{0}	$98^{±1.5}$	$128^{±1.5}$	$140^{±2}$	$113^{±0.3}$	71	$110^{±0.5}$	6.6 kg
BL-200TE	2 MN	133^{+3}_{0}	$150^{±1.5}$	$190^{±1.5}$	$210^{±2}$	$170^{±0.5}$	106	$120^{±0.5}$	14.1 kg

φA: Hollow diameter

■ Dimensions

φD
φC
φB
φA

M4 ×5
Screw hole for mounting the ground terminal of a lightning arrester kit

Wire hose band φ35

Toyo spring hose (TS-25), length 0.5 m

Cable

H

12×M12×10 (6 each on top and bottom)

(G)   (15)

40

φE

Bared at the tip (standard)

Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor