



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor

# BLWL-B

## Hollowed Load Cell

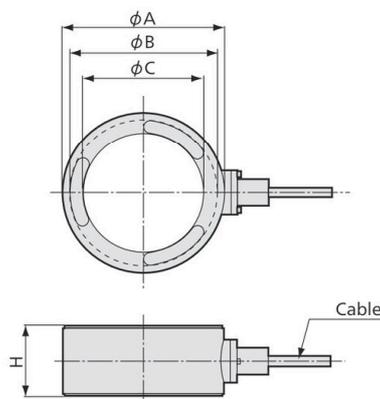


### Supports tensioning force measurement of existing anchors

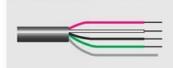
- Rated capacity: 500 kN, 1 MN
- Degree of protection: IP67

These center hole load cells measure loads on existing/new ground anchors and PC anchors, or during tunnel arch support work. Developed as part of a joint research project by PWRI (Public Works Research Institute) and 8 private companies, they are designed for new types of anchor load cells easily mounted on existing anchors or replaced. (Installation to an existing anchor requires the use of a tension jig and hydraulic jack developed for this joint research program.)

#### ■ Dimensions



Bared at the tip (standard)



#### Specifications

##### Performance

Rated Capacity See table below.

Nonlinearity Within  $\pm 1\%$  ROHysteresis Within  $\pm 0.5\%$  RO

Rated Output Approx. 1 mV/V

##### Environmental Characteristics

Safe Temperature  $-20$  to  $70^{\circ}\text{C}$ Compensated Temperature  $-10$  to  $60^{\circ}\text{C}$ Temperature Effect on Zero Within  $\pm 0.1\%$  RO/ $^{\circ}\text{C}$ Temperature Effect on Output Within  $\pm 0.1\%$ / $^{\circ}\text{C}$ 

##### 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 ( $0.5\ \text{mm}^2$ ) chloroprene shielded cable,  
9.6 mm diameter by 2 m long, bared at the tip  
(Shield wire is not connected to the case.)

##### Mechanical Properties

Safe Overloads 120%

Degree of Protection IP67 (JIS C 0920/IEC 60529)

Weight See table below.

\*The characteristics are the values when a uniform load is applied to the load surface.

The specified values may not be satisfied depending on the flatness of the installation surface, load direction, etc.

\*Please install it so as not to receive eccentric load.

\*Specifications and design are subject to change without notice.

\*Please contact us for information on product warranties.

#### ■ Models

Model	Rated Capacity	$\phi A$	$\phi B$	$\phi C$	H	Weight (Approx.)
BLWL-B-500KNSA3	500 kN	158	145	118	70	4.4 kg
BLWL-B-1MNSA3	1 MN	193	181	147	70	6.2 kg

\*As for 1.5 MN and others, please contact us.