## **BER-A-110S**

### Wall-surface Soil Pressure Transducer



## Stainless steel models can be manufactured for wave pressure measurement.

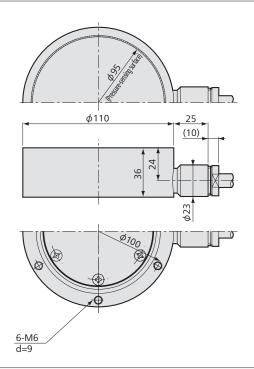
- Wear of the pressure-sensing surface does not affect output or initial values.
- Load cell-based design is less affected by bending effects.
- Usable for pressure measurement of coal or grain in a silo
- For pressure measurement of pulverulent (Powder) bodies of approximately 15 mm in diameter

The BER-A-110S soil pressure transducers come with the cable attached in parallel to the pressure-sensing surface.

#### To Ensure Safe Usage

Do not apply a load more than the rated capacity (Pressure, load) to the applied pressure surface.

#### Dimensions



#### **Specifications**

#### Performance

Rated Capacity	See table below.
Nonlinearity	Within ±1% RO
Hysteresis	Within ±1% RO
Rated Output	1 mV/V or more

Pressure Measurement100 kPa to 2 MPa

#### **Environmental Characteristics**

Safe Temperature	-30 to 80°C
Compensated Temperature	0 to 70°C
Temperature Effect on Zero	Within ±0.1% RO/°C
Temperature Effect on Output	Within ±0.1%/°C

#### Electrical Characteristics

Safe Ex	citation	10 V AC or DC	
Recom	mended Excitation	1 to 5 V AC or DC	
Input R	Resistance	350 Ω ±2%	
Output Resistance		350 Ω ±2%	
Cable	4-conductor (0.5 mm²) chloroprene shielded cable,		
10 mm diameter by 1 m long, bared at the tip			
(Shield is not connected to the case.)			

#### Mechanical Properties

Safe Ove	rloads	120%		
Maximum Load		See table below.		
Pressure-sensing Surface Approx. φ 95 mm				
Material	Stainless steel metallic finish (Pressure sensing surface)			
	ZnC-plated MF	(Flange and cable outlet)		
Water Resistance (Cable outlet) 600 kPa				
Degree of Protection IP68 (IEC 60529), (600 kPa)				
Weight	Approx. 2.2 kg			

<sup>\*</sup>Optionally coated with anti-biofouling paint is possible.

Models	Rated Capacity	Calculated Loads
BER-A-100KP110S	100 kPa	709 N
BER-A-200KP110S	200 kPa	1.4 kN
BER-A-500KP110S	500 kPa	3.5 kN
BER-A-1MP110S	1 MPa	7.1 kN
BER-A-2MP110S	2 MPa	14.2 kN

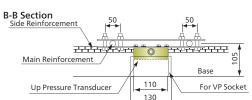
#### Application Example

For VP Socket

# A-A Section Bolt Installation Jig Flat Plate (t=5) Main Reinforcement Side Reinforcement Base Extension Cable

110

130



Cable Protective Hose

\ Wall-surface Pressure Transducer

