



Strain Gage

Load Cell

Pressure
SensorAcceleration
SensorTorque
SensorDisplacement
SensorComponent
Force
SensorAutomotive
SensorCivil
Engineering
Sensor

BEM-A

Soil Pressure Transducer



Embedded type

- Rated capacity: 50 kPa to 1 MPa
- Pressure-sensing surface diameter: 80 mm

These stainless steel soil pressure transducers are used to measure underground soil pressure.

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 2\%$ RO (500KP, 1MP: Within $\pm 1\%$ RO)
Hysteresis	Within $\pm 1\%$ RO
Rated Output	0.25 mV/V or more (50KP) 0.5 mV/V or more (100KP, 200KP) 1 mV/V or more (500KP, 1MP)

Environmental Characteristics

Safe Temperature	-20 to 80°C
Compensated Temperature	-15 to 70°C
Temperature Effect on Zero	Within $\pm 0.5\%$ RO/°C (50KP) Within $\pm 0.3\%$ RO/°C (100, 200KP) Within $\pm 0.2\%$ RO/°C (500KP, 1MP)
Temperature Effect on Output	Within $\pm 0.1\%$ /°C

Electrical Characteristics

Safe Excitation	10 V AC or DC
Recommended Excitation	2 to 8 V AC or DC
Input Resistance	350 Ω $\pm 1\%$
Output Resistance	350 Ω $\pm 1\%$
Cable	4-conductor (0.5 mm ²) chloroprene cable, 8 mm diameter by 1 m long, bared at the tip

Mechanical Properties

Safe Overloads	120%
Weight	Approx. 1 kg (Including cable)

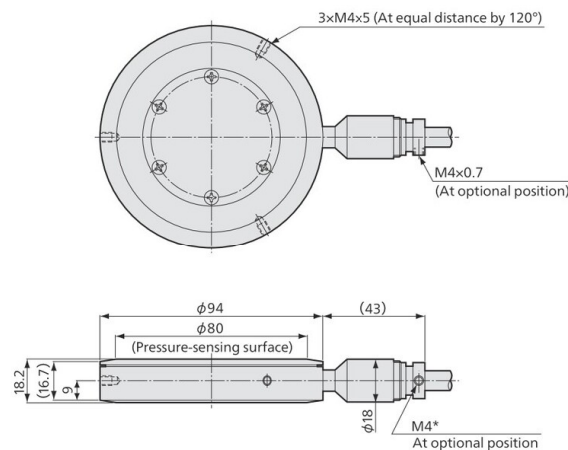
Models

Model	Rated Capacity
BEM-A-50KP	50 kPa
BEM-A-100KP	100 kPa
BEM-A-200KP	200 kPa
BEM-A-500KP	500 kPa
BEM-A-1MP	1 MPa

To Ensure Proper Usage

If mounting on a wall surface, install on a flat surface and ensure that no force such as bending is applied to the sensor.

Dimensions



*For grounding of lightning arrester kit.

Bared at the tip (standard)

