



Strain Gage

Load Cell

Pressure Sensor

Acceleration Sensor

Torque Sensor

Displacement Sensor

Component Force Sensor

Automotive Sensor

Civil Engineering Sensor

BEE-A/BEF-A

Soil Pressure Transducer

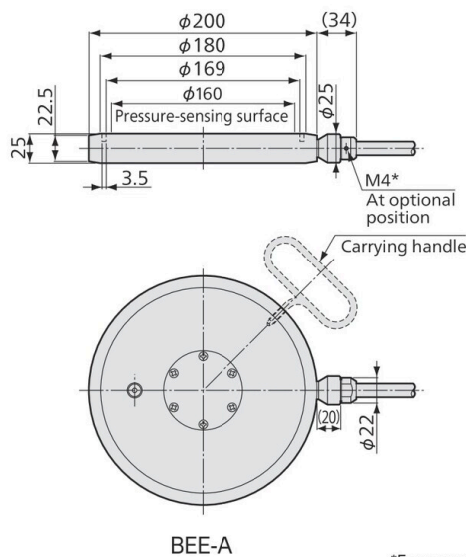


Standard embedded type

- Rated capacity: 200 kPa to 2 MPa
- Pressure sensing surface diameter: 160 mm
- Can also measure dynamic soil pressure of earthquakes, etc.

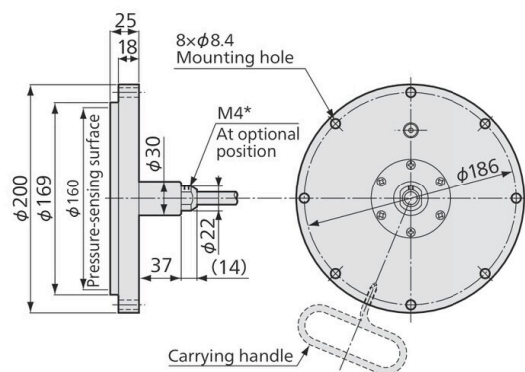
These transducers (outer diameter 200 mm) are used in the most standard measurement sites. BEE-A is used to measure underground soil pressure and is embedded in the core zone of a rockfill dam or standard berm. It can also measure 3-sided or 4-sided soil pressure. BEF-A can also be used as a continuous underground wall soil pressure transducer for earth-retaining work.

■ Dimensions



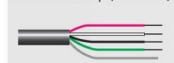
BEE-A

*For grounding of lightning arrester kit.



BEF-A

Bared at the tip (standard)



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO (200KP: Within $\pm 3\%$ RO)
Hysteresis	Within $\pm 1\%$ RO
Rated Output	1 mV/V or more (200KP: 0.9 mV/V or more)

Environmental Characteristics

Safe Temperature	-20 to 80°C
Compensated Temperature	-15 to 70°C
Temperature Effect on Zero	Within $\pm 0.1\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.1\%$ °C

Electrical Characteristics

Safe Excitation	10 V AC or DC
Recommended Excitation	2 to 10 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, 11.5 mm diameter by 1 m long, bared at the tip

Mechanical Properties

Safe Overloads	120%
Weight	BEE: Approx. 5.9 kg (Excluding cable) BEF: Approx. 5.6 kg (Excluding cable)

■ Models

Model		Rated Capacity
Underground soil pressure measurement	Wall surface soil pressure measurement	
BEE-A-200KP	BEF-A-200KP	200 kPa
BEE-A-500KP	BEF-A-500KP	500 kPa
BEE-A-1MP	BEF-A-1MP	1 MPa
BEE-A-2MP	BEF-A-2MP	2 MPa