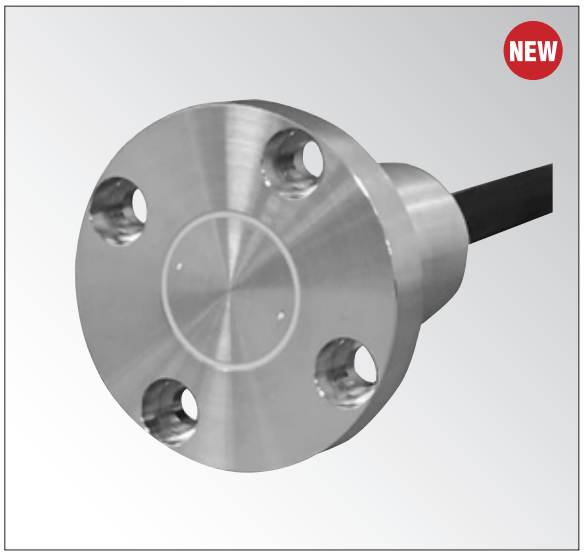
BER-S-35SA1

Wall-surface Soil Pressure Transducer

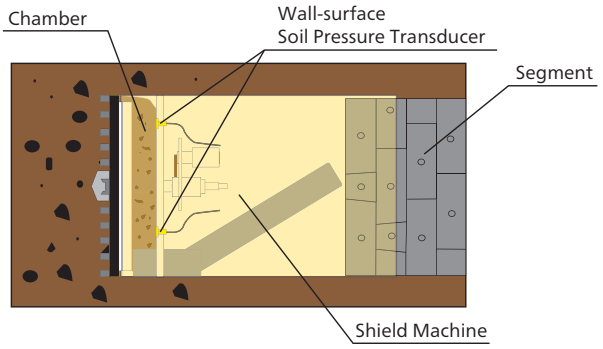
●Pressure Measurement
●500 kPa to 3 MPa



With a stopper, enables to support overload of 1000%

●Outstanding 1000% overload
●Regular capacity models are available
●Support of 1000% overload against eccentric loads (With a stopper)

■Application Example



Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±2% RO
Hysteresis	Within ±2% RO
Rated Output	Approx. 1.5 mV/V

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 Excitation	12 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,
	10 mm diameter by 30 m long, bared at the tip
	(Shield is not connected to the case.)

Mechanical Properties

Safe Overloads	1000% soil pressure (Powdered & pore pressure)
	And the pore pressure (Liquid & gas pressure) is
	3 MPa.
Material	Stainless steel metallic finish
Water Resistance (Cable outlet)	600 kPa
Weight	Approx. 400 g (Excluding cable)

Models	Rated Capacity	Calculated Loads
BER-S-500KP35SA1	500 kPa	230 N
BER-S-1MP35SA1	1 MPa	460 N
BER-S-2MP35SA1	2 MPa	910 N
BER-S-3MP35SA1	3 MPa	1360 N

*For pressure measurement of pulverulent bodies ϕ3 mm or less (Powdered & pore pressure)

■Dimensions

Note:
1. Do not weld the transducer when the mounting fixture fixed on.
2. The O ring contact surface must be finished as smooth as ▽Rz6.3.