BER-S-79SA1
Wall-surface Soil Pressure Transducer

With a stopper, enables to support overload of 1000%

- Outstanding 1000% overload
- Support of 1000% overload against eccentric loads (With a stopper)
- Excellent characteristics against eccentric load (Little change in sensitivity and others)

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. 230 g (Excluding cable)

Calculated Loads

<table>
<thead>
<tr>
<th>Models</th>
<th>Rated Capacity</th>
<th>Calculated Loads</th>
</tr>
</thead>
<tbody>
<tr>
<td>BER-S-500KP79SA1</td>
<td>500 kPa</td>
<td>230 N</td>
</tr>
<tr>
<td>BER-S-1MP79SA1</td>
<td>1 MPa</td>
<td>460 N</td>
</tr>
<tr>
<td>BER-S-2MP79SA1</td>
<td>2 MPa</td>
<td>910 N</td>
</tr>
<tr>
<td>BER-S-3MP79SA1</td>
<td>3 MPa</td>
<td>1360 N</td>
</tr>
</tbody>
</table>

Note:
Do not weld the transducer when the mounting fixture fixed on.

Dimensions