

Guide Roller-Equipped
Inclination TransducersInclination angles detected enable
measurement of lateral displacement
of the ground or earth retaining wall.

- Guide rollers ensure smooth installation.
- No grouting work required in the guide pipe
- Installable at maximum 15 stages

The BKL-A series inclination transducers are designed for embedment at multiple stages in the ground or earth retaining wall. Inclination angles detected at multiple stages enable measurement of lateral displacement of the ground or earth retaining wall. Guide rollers provided ensure smooth installation in an aluminum guide pipe embedded beforehand, and no grouting work in the guide pipe is required.

To Ensure Safe Usage

To protect the cable, it is recommended to connect the dedicated aluminum guide pipe using an adhesive or screws (M4x4). Do not use rivets.



Caution

Different from KYOWA insertion type inclination transducer BK-G, the BKL-A cannot be lifted up and down for measurement.

● Inclination Measurement ● $\pm 5^\circ$, $\pm 10^\circ$

Specifications

Performance

Rated Capacity :	$\pm 5^\circ$ (BKL-A-5) $\pm 10^\circ$ (BKL-A-10)
Nonlinearity :	Within $\pm 0.5\%$ RO
Hysteresis :	Within $\pm 0.5\%$ RO
Rated Output :	1.4 mV/V (2800 μ m/m) or more (minus rated capacity to plus rated capacity)
Safe Temperature Range :	-20 to 70°C

Environmental Characteristics

Compensated Temperature Range :	-10 to 60°C
Temperature Effect on Zero Balance :	Within $\pm 0.05\%$ RO/°C
Temperature Effect on Output :	Within $\pm 0.1\%$ /°C
Recommended Excitation Voltage :	2 to 10 V AC or DC

Electrical Characteristics

Input Resistance :	350 Ω $\pm 1\%$
Output Resistance :	350 Ω $\pm 1\%$
Cable :	4-conductor (0.3 mm ²) chloroprene shielded cable, 6 mm diameter by 1 m long, bared at the tip
Safe Overload Rating :	120%

Mechanical Properties

Material :	Stainless steel
Protection Rating :	IP68 (JIS C 0920) Water resistance 490 kPa
Weight :	Approx. 1.3 kg

Standard Accessories

Dedicated aluminum guide pipe B-30, 3 m long

Dedicated socket B-35, 30 cm long

Dimensions

