

BKL-A

Guide Roller-equipped Inclination Transducer



Inclination 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	$\pm 5^\circ$ for BKL-A-5; $\pm 10^\circ$ for BKL-A-5
Nonlinearity	Within $\pm 0.5\%$ RO
Hysteresis	Within $\pm 0.5\%$ RO
Rated Output	1.4 mV/V or more (Minus rated capacity to plus rated capacity)

Environmental Characteristics

Safe Temperature	-20 to 70°C
Compensated Temperature	-10 to 60°C
Temperature Effect on Zero	Within $\pm 0.05\%$ 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	8-conductor (0.3 mm ²) chloroprene shielded cable, 6 mm diameter by 1 m long, bared at the tip (4-conductor only)

Mechanical Properties

Safe Overloads	120%
Material	Stainless steel
Degree of Protection	IP67 (IEC 60529), water resistance 490 kPa
Weight	Approx. 1.3 kg

Optional Accessories

Dedicated aluminum guide pipe B-30, 3 m long

Dedicated socket B-35, 30 cm long

Dimensions

