

BK-G

Insertion Type Inclination Transducers



Inclination angles detected enable measurement of lateral displacement of the ground or earth retaining wall.

- Highly reliable performance backed by durable structure ensure safe use in civil engineering fields.
- Cable and reel are standard accessories: the cable enables measurement up to 50m deep.

BK-G series inclination transducers are designed for insertion in guide pipe embedded beforehand, in the ground or the structure, detect successive inclination angles and measure lateral displacement. And are indispensable to check for landslide or earth retaining wall, many use for lateral displacement of the ground or earth retaining wall.

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

Specifications

Performance

Rated Capacity :	BK-5G $\pm 5^\circ$
	BK-10G $\pm 10^\circ$
Nonlinearity :	Within $\pm 0.5\%$ RO
Hysteresis :	Within $\pm 0.5\%$ RO
Rated Output :	2.182mV/V ($4364 \times 10^{-6} \mu\text{m/m}$) $\pm 0.5\%$ (from minus rated capacity to plus rated capacity)

Environmental Characteristics

Safe temperature Range :	-20 to 60°C
Compensated Temperature Range :	-20 to 50°C
Temperature Effect on Zero Balance :	Within $\pm 0.03\%$ RO/ $^\circ\text{C}$
Temperature Effect on Output :	Within $\pm 0.03\%$ / $^\circ\text{C}$

Electrical Characteristics

Input Resistance :	500 to 660Ω
Output Resistance :	343 to 357Ω
Cable :	4-conductor (0.5mm^2) piano-wire-reinforced chloroprene-shielded cable of 60m long (contact a kyowa representative for a cable of longer than 50m)

Mechanical Properties

Safe over load Rating :	120%
Weight :	Approx. 3.2kg

Optional Accessories

Dedicated aluminum guide pipe B-30 (3m long)
Pipe receptacle B-35 (30cm long)

※60m long or cable can be manufactured.

Dimensions

