

BKJ-A

Embedment Type Inclination Transducer

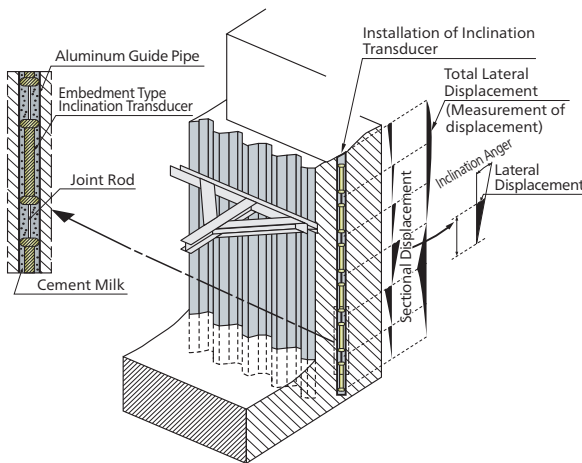


Small-sized and lightweight 27 mm in outer diameter. Inclination angles detected at multiple stages enable measurement of lateral displacement of the ground or earth retaining wall.

- Facilitate quick and easy data recording since the BKJ-A series is installed in an aluminum guide pipe embedded beforehand in a boring or earth retaining wall.
- Allows installation at maximum 20 stages in a guide pipe.
- Available in uniaxial and biaxial types for selection to meet individual application needs
- Designed for high immunity against lightning surge

The BKJ-A series inclination transducers are designed for embedment at multiple stages in a boring or earth retaining wall. Inclination angles detected at multiple stages enable measurement of lateral displacement of the ground or earth retaining wall. Since the embedment method ensures quicker measurement than the insertion method, the BKJ-A series is suitable for use in information-oriented urban civil engineering fields. The BKJ-A series can be installed at maximum 20 stages in an aluminum guide pipe embedded beforehand.

Measurement of Earth Retaining Walls



● Inclination Measurement ● ±5°, ±10°

Specifications

Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.5%RO
Hysteresis	Within ±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 ±0.05% RO/°C
Temperature Effect on Output	Within ±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 ±1%
Output Resistance	350 Ω ±1%
Cable	BKJ-A: 8-conductor (0.3 mm ²) chloroprene shielded cable, 6 mm diameter by 1 m long, bare at the tip (4-conductor only) BKJ-A-D: 8-conductor (0.3 mm ²) chloroprene shielded cable, 6 mm diameter by 1 m long, bared at the tip

Mechanical Properties

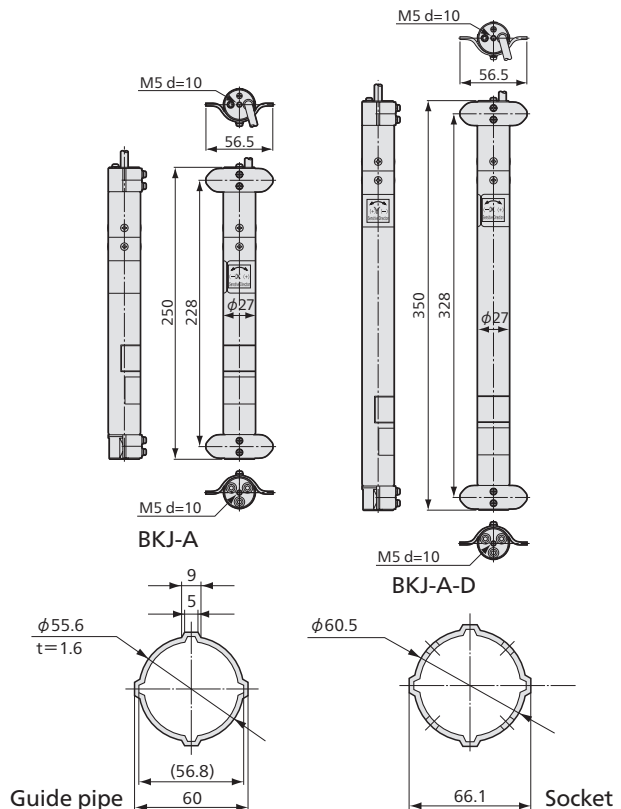
Safe Overloads	120%
Material	Stainless steel (Guide blade resin)
Degree of Protection	IP67 (IEC 60529), water resistance 490 kPa
Weight	See table below.

Optional Accessories

Dedicated aluminum guide pipe B-30, 3 m long
Dedicated socket B-35, 30 cm long

Measuring Directions	Models	Rated Capacity	Weight (Approx.)
1 (Uniaxial)	BKJ-A-5	±5°	1 kg
	BKJ-A-10	±10°	
2 (Biaxial)	BKJ-A-5-D	±5°	1.2 kg
	BKJ-A-10-D	±10°	

Dimensions



To Ensure Safe Usage

To protect the cable, it is recommended to connect the dedicated aluminum guide pipe using an adhesive or screws (M4×4). Do not use rivets.

