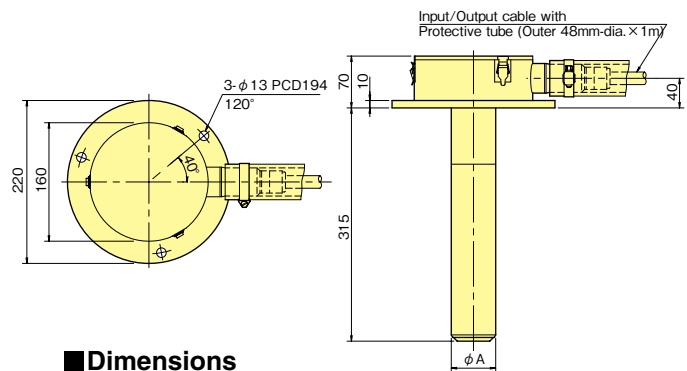
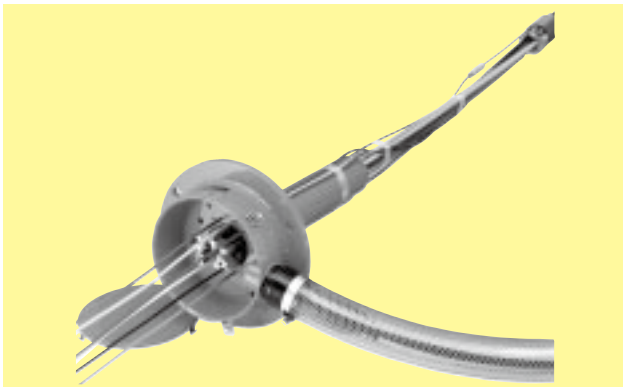


KLB-A Rock Displacement Transducer



The KLB-A rock displacement transducer measures the amount of positional displacement between the plane on which it is mounted and a specified point in bedrock. The measurement setup consists of the KLB-A as a displacement sensor, the hydraulic anchor KLF-11, and the rod KLF-21 that connects the KLB-A to the hydraulic anchor. This transducer has a maximum of eight built-in displacement transducers, so it is able to make measurement using eight hydraulic anchors mounted inside one borehole (66 mm or larger in diameter). The displacement occurring between the transducer and anchors is detected via the rod and output as the amount of relative positional displacement. Anchors are secured to bedrock at specified measurement positions by hydraulic pressure generated by a pump on the ground.

Protection ratings : IP 45 equivalent

■ Dimensions

Type	A (mm)	* Weight (kg)
KLB-100A-1~6	60	4.5
KLB-100A-7, 8	70	5.2

* Sensor unit only

■ Specifications

Type	KLB-100A
No. of measurement	1~8
Capacity	100mm (-20~+80mm)
Rated Output	Approx. 2.5mV/V (5000×10 ⁻⁶ strain)
Non-linearity	0.5 %RO
Temperature range	0~+60°C (no icing)
Input/Output resistance	350 Ω
Recommended exciting voltage	Less than 2V
Allowable exciting voltage	5V
Weight	1~6 points model : 4.5kg 7, 8 points model : 5.2kg

Input/Output cable

In case of 1~3 points : φ 11.5mm 0.3mm² 12-core shielded vinyl cable 2m
 In case of 4~6 points : φ 16.5mm 0.3mm² 24-core shielded vinyl cable 2m
 In case of 7, 8 points : φ 18.5mm 0.3mm² 32-core shielded vinyl cable 2m

■ Application to NATM

