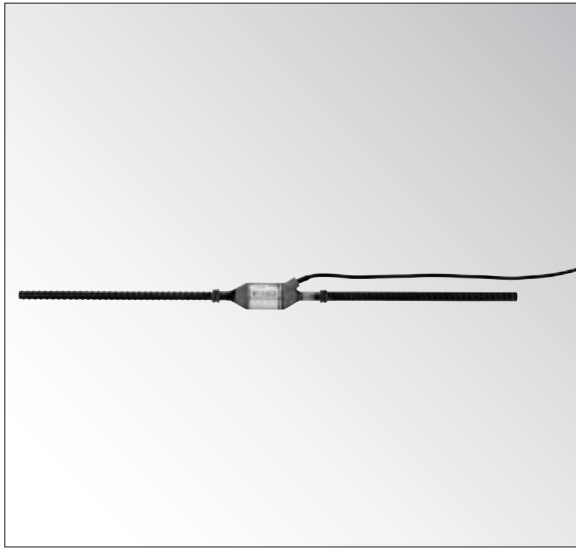


BF-CT

- Stress Measurement
- 300 MPa
- With Temperature Measuring Function

Reinforcing-bar Stress Transducer



Specifications

Performance

● Stress Measurement	
Rated Capacity	300 MPa (1 Mpa=1 N/mm ²)
Nonlinearity	Within ±1% RO
Hysteresis	Within ±1.5% RO
Rated Output	1.85 mV/V or more
● Temperature Measurement	
Rated Capacity	-30 to 70°C
Measurement Error	±0.5°C (-30 to 70°C)
(See page 7-32 for Small-sized Temperature Transducer BTS-100AT.)	

Environmental Characteristics

Safe Temperature	-30 to 80°C
Compensated Temperature	-20 to 70°C
Temperature Effect on Zero	Within ±0.05% RO/°C
Temperature Effect on Output	Within ±0.05%/°C

Electrical Characteristics

Safe Excitation	10 V AC or DC
Recommended Excitation	2 to 10 V AC or DC
Input Resistance	350 Ω ±2% at 0°C
Output Resistance	450 Ω ±1.6% at 0°C
Cable	4-conductor (0.5 mm ²) chloroprene shielded cable, 8 mm diameter by 1 m long, bared at the tip

Mechanical Properties

Safe Overloads	110%
Nominal Diameter (Deformed Bar)	See table below.
Weight	See table below.

Other

Applicable Reinforcing Bar	SD345 (Formerly, SD35)
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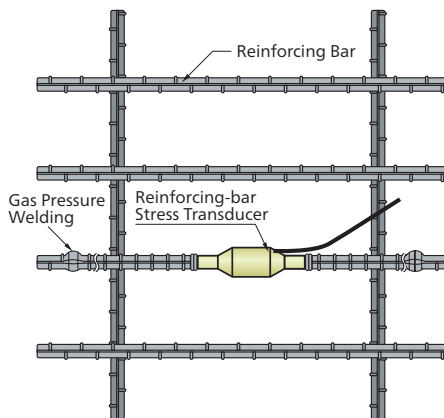
Models	d*	φD	W	L	Weight (Approx.)
BF-10CT	D10	43	55	(190)	900 g
BF-13CT	D13				1.3 kg
BF-16CT	D16				1.8 kg
BF-19CT	D19	49	56	(200)	2.5 kg
BF-22CT	D22				3.2 kg
BF-25CT	D25				4.3 kg
BF-29CT	D29	61	70	(220)	5.3 kg
BF-32CT	D32				6.3 kg

For stress measurement of reinforcing bar

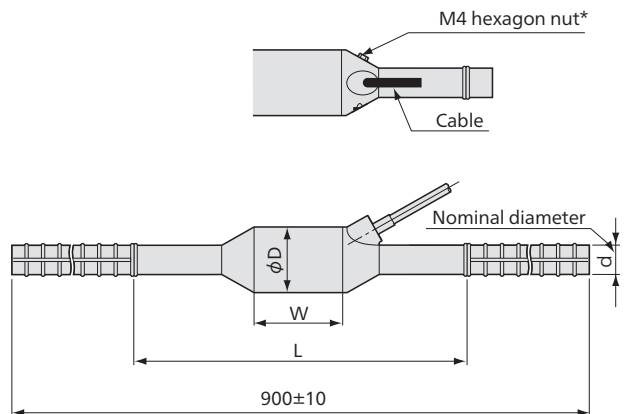
- For long-term stable measurement, the transducer proper features a special structure with inert gas filled in.
- The self-temperature-compensated strain gage used for the transducer enables measurement of the temperature stress of the reinforcing bar.

The BF-CT series stress transducers are designed for stress measurement by welding both ends to a reinforcing bar in the field. They are available in various models for selection according to diameters of the reinforcing bars. Each model provides a temperature measuring function to enable simultaneous measurement of stress and temperature.

Application Example



Dimensions



* For grounding of lightning arrester kit.

