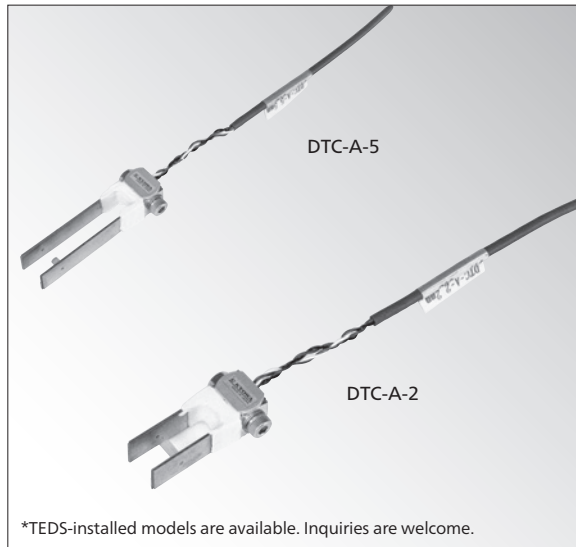


## Clip-type Displacement Transducer



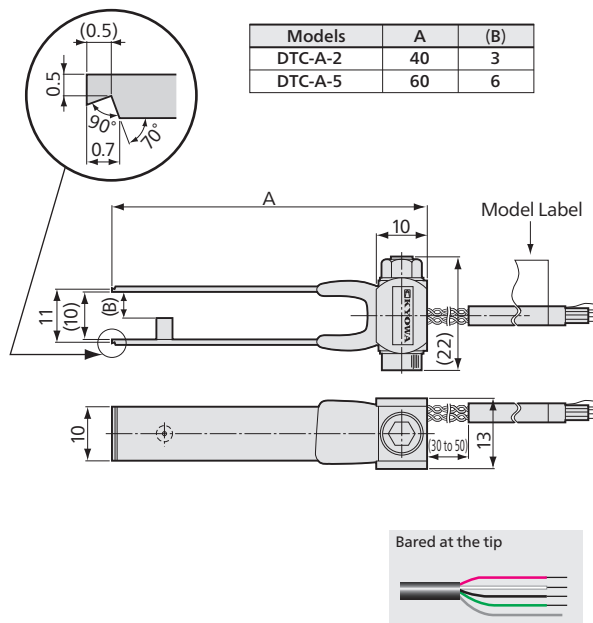
\*TEDS-installed models are available. Inquiries are welcome.

### For materials tests with an overload prevention stopper

- Sensor tip is designed in conformity with ASTM Standard.
- Mounting tips are optionally available.

DTC-A displacement transducers allow crack opening displacement of materials to be measured, complying with ASTM standard, etc. To measure crack opening displacement, bezels at both tips of a clip are hooked to crack edges. If crack edges are too large or bezels are not applicable, mounting tips are optionally available.

### ■ Dimensions



### Specifications

#### Performance

Rated Capacity	See table below.
Nonlinearity	Within $\pm 1\%$ RO
Hysteresis	Within $\pm 1\%$ RO
Repeatability	1% RO or less
Rated Output	2.5 mV/V $\pm 20/-10\%$

#### Environmental Characteristics

Safe Temperature	-10 to 60°C
Compensated Temperature	0 to 50°C
Temperature Effect on Zero	Within $\pm 0.05\%$ RO/°C
Temperature Effect on Output	Within $\pm 0.05\%$ °C

#### Electrical Characteristics

Safe Excitation	10 V AC or DC
Recommended Excitation	2 to 4 V AC or DC
Input Resistance	350 $\Omega$ $\pm 2\%$
Output Resistance	350 $\Omega$ $\pm 2\%$
Cable	4-conductor (0.08 mm <sup>2</sup> ) vinyl shielded cable, 3.2 mm diameter by 2 m long, bared at the tip (Shield wire is not connected to the case.)

#### Mechanical Properties

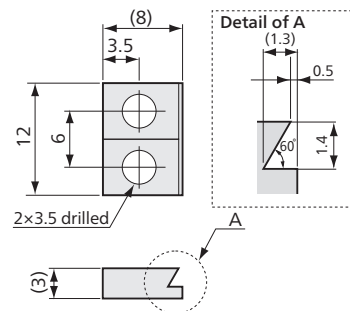
Safe Overloads	130% (With a stopper)
Natural Frequencies	See table below.
Measuring Force	See table below.
Weight	Approx. 20 g (Excluding cable)

#### Optional Accessories Mounting tips TIP-10A

Models	Rated Capacity (Bezel Distance)	Measuring Force (Approx.)	Natural Frequencies (Approx.)
● DTC-A-2	2 mm (8 to 10 mm)	4 to 20 N	580 Hz
● DTC-A-5	5 mm (4 to 9 mm)	1 to 10 N	215 Hz

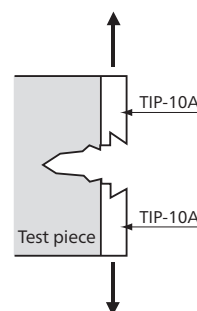
● For delivery date, please contact us.

### ■ Mounting tips TIP-10A

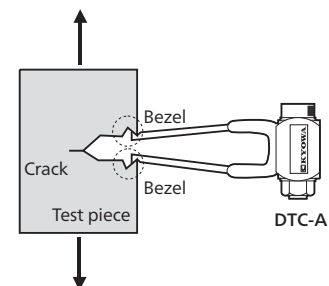


Use the optional mounting tips where a bezel may not be prepared on the test piece or where the mounting bezel distance is too wide. The tip is available in 2 pieces per set.

### ■ Application for mounting tips



### ■ Typical application (Material testing in conformity with ASTM)



- Prepare two bezels at counter-positions on the crack or fix 2 optional mounting tips TIP-10A using screws or adhesive. Mount the DTC-A to the bezels or to the tips.