



Displacement Transducer

DTT-A/DTS-A NEW

DTT-A: Potentiometer-type DTS-A: Strain type

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111	Improving	creepage

☐ For tension and compression

☐ Fast response

(DC to 50 Hz when the tip is fixed)

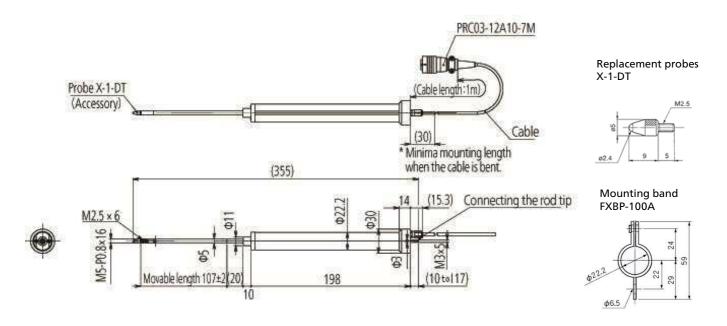
Specifications

Models	DTT-A-100	DTS-A-100		
Types	Potentiometer	Strain		
Performance				
Rated capacity	100mm			
Nonlinearity	Within ±0.2%RO	Within ±0.3%RO		
Hysteresis	Within ±0.2%RO	Within ±0.3%RO		
Repeatability	0.1%RO or less			
Rated Output	0.9 V/V±10%	$2.5 \text{ mV/V} \pm 10\% (5000 \mu\text{m/m} \pm 10\%)$		
Environmental Characterist	ics			
Safe Temperature	-10 to 70 °C (Noncondensing)			
Compensated Temperature	0 to 60 °C (Noncondensing)			
Temperature Effect on Zero	Within ±0.05% RO / °C			
Temperature Effect on Span	Within ±0.05%/°C			
RoHS Directive	EN50581			
Electrical characteristics				
Safe Excitation	36 VDC (At 23°C)	10 V AC or DC		
Recommended Excitation	2 to 10 VDC	1 to 5 V AC or DC		
Resistance	1 kΩ±20%	Input resistance: 350 $\Omega \pm 3\%$ Output resistance: 255 $\Omega \pm 10\%$		
Cable	4-conductor (0.08 mm²) vinyl shielded cable, 3.2 mm diameter by 1 m long, terminated with connector plug. (Shielded wire is not connected to case)			
Mechanical Properties				
Frequency Response	DC to approx. 6 Hz (When the gage head is touching to the testing machine, displacement: 100 mm) (Reference: DC to approx. 50 Hz) (When the gage head is fixed, displacement is 30 mm.)			
Measuring Force	Approx. 5 N			
Weight	Approx. 110 g (Excluding cable)			
Degrees of Protection	IP40 equivalency (IEC 60529)			

Standard Accessories

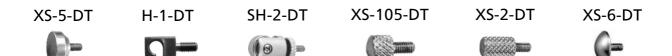
Probe: X-1-DT, 1 PC Adapter 1 PC

Mounting band 2 PC

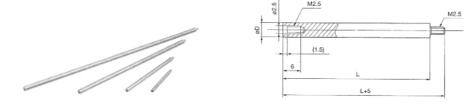


Options for displacement transducers

Replacement probes



Extension rods



Mode I	φD	L
EB-50	4	50
EB-100	5	100
EB-200	6	200
EB-300	6	300

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Be sure to observe the safety precautions given in the instruction manual, in order to ensure correct and safe operation.





Manufacture's Representative