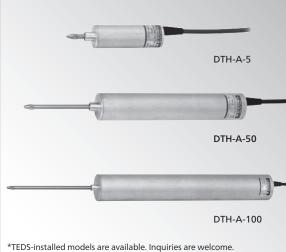
DTH-A Displacement Transducer



*CE compliant models are available. Inquiries are welcome.

Compact & lightweight Excellent temperature characteristics Nonlinearity ±0.1% RO

●Large output of 5 mV/V Small measuring force: Approx. 1.5 to 4 N

DTH-A series displacement transducers adopt a strain gages for the sensing elements to ensure longterm stable measurement. They are widely used for measurement of structural relative displacement or absolute displacement from a steady point.

Dimensions

DTH-A-20

DTH-A-30

DTH-A-50

DTH-A-100

20 mm

30 mm

50 mm

100 mm

2.2 N

3 N

4 N



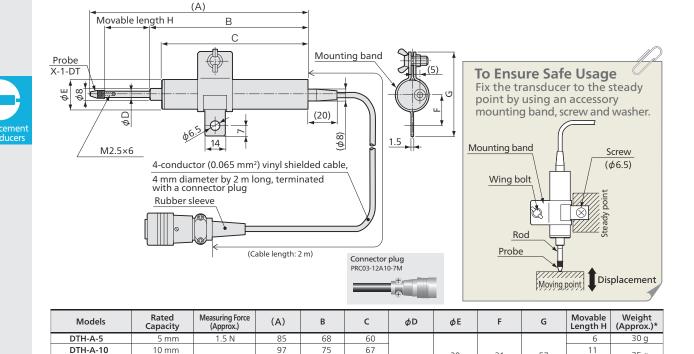
Large output, small measuring force

Specifications

specification	3							
Performance								
Rated Capacity	See table below.							
Nonlinearity	Within ±0.1% RO							
Hysteresis	Within ±0.1% RO							
Repeatability	0.1% RO or less							
Rated Output	5 mV/V ±0.1%							
-	±0.15% (DTH-A-5)							
Environmenta	Characteristics							
Safe Temperatur								
Compensated Te	emperature 0 to 60°C (Non-condensing)							
Temperature Eff								
Temperature Eff	ect on Output Within ±0.01%/°C							
Electrical Chara	acteristics							
Safe Excitation	6 V AC or DC							
Recommended Excitation 1 to 4 V AC or DC								
Input Resistance $350 \Omega \pm 1\%$								
Output Resistance $350 \Omega \pm 1\%$								
Cable 4-conductor (0.065 mm ²) vinyl shielded cable,								
4 mm diameter by 2 m long, terminated with a connector plug								
PRC03-12A10-7M								
(Shield wire is not connected to the case.)								
Mechanical Pro	operties							
Frequency Respo	onse DC to approx. 2 Hz							
Measuring Force								
Weight	See table below.							
Degree of Protec	ction IP50 (IEC 60529)							
Others								
Initial Unbalance								
	-5000 ×10 ⁻⁶ strain.							
Standard Accessori	es Mounting band: FXB-5A (×1 for DTH-A-5 to 30) FXB-50A (×2 for DTH-A-50) FXB-100A (×2 for DTH-A-100)							
	Probe X-1-DT: 1 Protection tube: 1							
Optional Accessori	Extension rods EB-50, EB-100, EB-200 (Page 2-151 Replacement probes X_XS_SH (Page 2-151)							

Replacement probes X, XS, SH (Page 2-151) Magnet base MB-B (Page 2-151)

(Note 1) Do not apply any displacement in other than expansion/ contraction direction of the rod



97	75	67		20	21	57	11	35 g		
123	91	83	4	4	4	20	21	57	21	559
150	108	100					31	40 g		
210	148	140		25	23.5	62	51	75 g		
360	248	240	5	35	28.5	72	101	200 g		
*Excluding cab										

cable