DT-L Easy Installation, Handling & Maintenance 10 to 50 mm **Dial Gage-equipped Displacement Transducer**

Specifications



Possible to Read Displacement Directly by Scale and Excellent Temperature Characteristics

DT-D displacement transducers adopt stra gages for the sensor part to ensure long-te stable measurement. They can widely be used measurement of structural relative displacement absolute displacement from a steady point.

Dimensions



DT-D Recommended products for

. combination

Performance		
Rated Capacity	See table below.	
Nonlinearity	Within ±0.5% RO	
Hysteresis	Within ±0.5% RO	
Repeatability	0.3% RO or less	
Rated Output	1.5 mV/V (3000 μm/	/m) or more
Environmenta	l Characteristics	
Safe Temperatu	re Range	0 to 55°C (Non-condensing)
Compensated T	emperature Range	0 to 50°C (Non-condensing)
Temperature Ef	fect on Zero Balance	Within ±0.03% RO/°C
Temperature Ef	fect on Output	Within ±0.03%/°C
Electrical Char	acteristics	
Safe Excitation	/oltage	12 V AC or DC
Recommended	Excitation Voltage	1 to 4 V AC or DC
Input Resistance	2	350 Ω±2%
Output Resistar	ice	350 Ω±2%
Cable 4-conduc	tor (0.08 mm²) chloro	oprene shielded cable,
4 mm dia	meter by 5 m long, te	rminated with connector plug
(Shield wi	re is connected to ma	iinframe.)
Mechanical Pr	operties	
Safe Overload R	ating 100%	
Frequency Resp	onse Range DC to a	approx. 0.8 Hz
Measuring Force	e See tak	ble below.
Weight	See tak	ole below (Excluding cable).
Optional Accessor	ies (For details, refe	er to page 2-159.)
Replacement pro	obes X/XS/SH	
Magnet base MI	3-B	
Notes:		
1. Avoid usage in	vibration.	
2. If large displac	ement is applied mo	mentarily, it takes some time that
output is settle	ed.	
3. Do not apply a	any displacement in a	other than expansion/contraction
4 If the DT-50D	e iou. M150 is used in boi	rizontal position the rod inclines
by approximat	elv 10 mm due to it	s own weight and may not follow
displacement.		
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Models	Rated Capacity	Measuring Force (Approx.)	А	В	φC	φD	φE	F	G	н	J	φК	Weight (Approx.)
DT-10D	10 mm	1.7 N	106.5	65	53	8	4	54	14.5	31	17.5	49	160 g
DT-20D	20 mm	2.1 N	131	90	66.5	8	5	52	14.5	29.5	17	62.5	310 g
DT-30D M150	30 mm	2.2 N	148	102	75.5	8	5	54	17.5	28.5	15.5	72.5	260 g
DT-50D M150	50 mm	2.7 N	209.5	128	81.5	10	5.5	58	17.5	32	19	78.5	300 g

Physical quantity indication

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WGA-680A

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Static measurement Opynamic measurement





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TRANSDUCERS