



## Introducing the TD580 Series Rodless Linear Displacement Transducer.



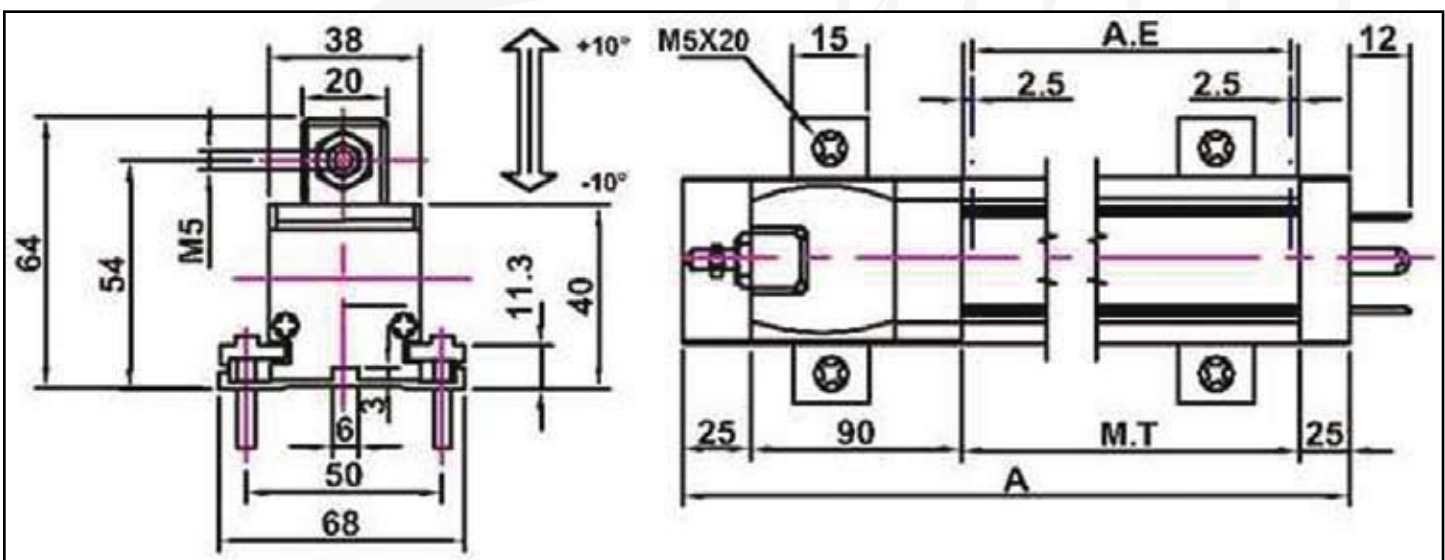
SERIES: TD580

### FEATURES

- 75 to 1000 mm. stroke
- Mechanical linkage using joint with take up of play, M5 thread
- Independent linearity  $\pm 0.3\%$
- Repeatability 0.01 mm.
- Infinite resolution
- Displacement speed: 10 meter/sec
- Working temperature: -55 to +125°C
- Electrical connections:
  - 4-pole connector DIN43650 Large (18mm)
  - 4-pole connector DIN43650 Mini (9.4mm)
  - 5-pole connector (DIN43322)
- Life duration: > 25x10<sup>6</sup> meters or > 100x10<sup>6</sup> operations, whichever is the smaller
- Grade of protection IP40

# TRANSDUCERS

### DIMENSIONS



Dimensions In Millimeters And Are Reference Only.



**SPECIFICATIONS**

Useful electrical stroke	75/100/130/150/175/200/225/250/275/300/350/375/400 425/450/500/550/600/650/700/750/800/900/1000
Independent linearity	0.3%
Displacement speed	10 meters / sec
Displacement force	1.2 N
Vibrations	5 to 2000Hz, Amax =0.75 mm amax. = 20 g
Shock	50 g, 11ms.
Acceleration operative	2 200 m/s max (20g)
Tolerance on resistance	± 20%
Recommended cursor current	< 0.1 mA
Maximum cursor current	10mA
Maximum applicable voltage	60V
Electrical isolation	>100 M at 500V=, 1bar, 2s
Dielectric strength	< 100mA at 500V~, 50Hz, 2s, 1bar
Dissipation at 40°C	3W (0W at 120°C)
Temp. Coeff. of resistance	-200 ± 200ppm/°C
Actual Temp. Coefficient of the output voltage	< 1.5ppm/°C
Working temperature	-55 to +125°C
Storage temperature	-50 to +120°C
Case material Anodized 40	aluminum Nylon 66 GF
Cursor block material	Nylon 66 GF 40 Latilub 73/13
Mounting	Brackets with variable longitudinal axis

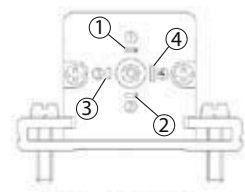
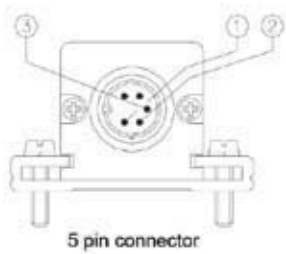
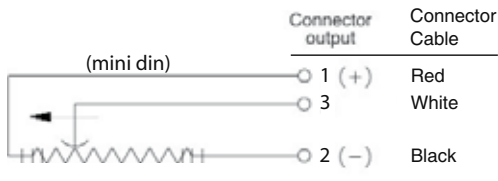
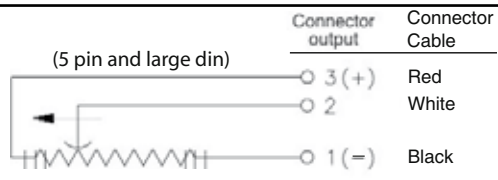
**TRANSDUCERS**

**MECHANICAL / ELECTRICAL DATA**

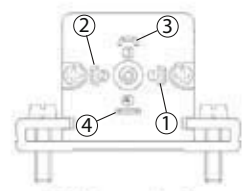
TD580 SERIES		75	100	130	150	175	200	225	250	275	300	350	375	400	425	450	500	550	600	650	700	750	800	900	1000		
Total Electrical Travel(T.E)	mm	76	102	132	152	177	202	229	254	279	305	355	381	405	430	457	507	557	610	660	710	762	812	914	1014		
Active Electrical Travel(A.E)	mm	75	100	130	150	175	200	225	253	276	302	352	378	403	428	455	505	555	607	657	707	759	809	912	1013		
Resistance+/-20%	K ohm	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	10	10	10	10	10	10.0		
Linearity		0.3%												0.3%													
Mechanical Travel(M.T)	mm	79	104	135	155	179	204	231	256	281	307	357	384	404	429	460	506	558	612	662	712	765	815	917	1017		
Resolution		Infinite																									
current	mA	<10																									
Temperature	°C	-55-----+125																									
Dimension A	mm	216	241	271	292	317	343	368	393	418	444	494	521	538	563	597	638	688	738	788	838	888	938	1038	1138		



**ELECTRICAL CONNECTIONS**



43650 mini din 9.4mm (standard)



43650 large din 18mm

**ACCESSORIES**

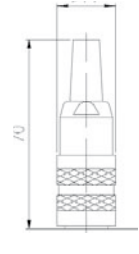
Includes 2 mounting feet w/M4x26 screws  
 MATING CONNECTORS



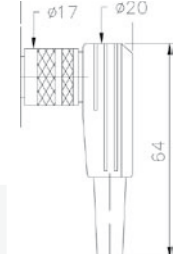
4 pin IP65  
**TD4P9-00**  
 mini din



4 pin IP65  
**TD4PL-00**  
 large din



**TD5P-CS-00**  
 5 pin straight



**TD5P-CR-00**  
 5 pin Right Angle

**ORDERING**

Series	Connector	Length (inmm)	
TD580M	D	150	
	D = 4 Pin Mini Din Connector	75	500
		100	550
	4 = 4 Pin Large Din Connector	130	600
		150	650
	5 = 5 Pin Connector	175	700
		200	750
		225	800
		250	900
		275	1000
		300	
		350	
		375	
		400	
		425	
		450	

\*\*= Consult factory for further options.

