

INNOVATIVE SENSORS FOR INDUSTRIAL AND HOME AUTOMATION

Introducing the TD390 series Low Profile, Short Length, Linear Position Transducer.



SERIES: TD390 (1 to 6" stroke lengths)

Rugged construction for manufacturing environment

Accurate position at power up

Works with simple controls

• Protects internal components from factory environment

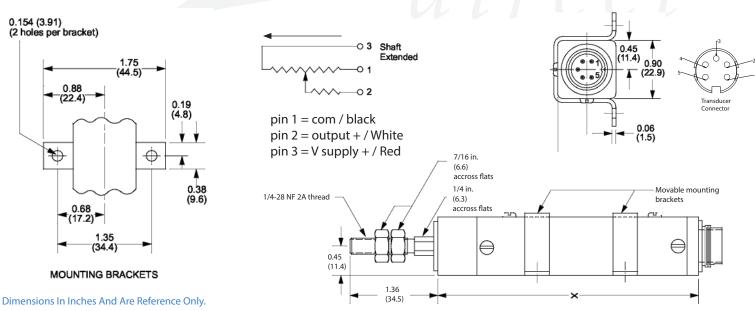
FEATURES

- 0.25 inch shaft
- IP65 shaft seal
- Absolute continuous measurement
- High performance bearings
- High level DC output
- 0.3% Linearity
- Repeatability 0.0004 inches

DESCRIPTION

The Model 390 is frequently used for measuring linear position or displacement up to 6 inches on a wide variety of manufacturing and process equipment. The mechanical design of the unit's front and rear bearings, anodized extruded aluminum housing, stainless steel shaft and IP65 shaft seal are suitable for a factory's harsh environment. Based on the proprietary conductive plastic film, it provides a high resolution, absolute position measurement without external signal conditioners.

DIMENSIONS





INNOVATIVE SENSORS

SPECIFICATIONS

MECHANICAL				
Total Mechanical Travel				
Starting Force*				
Total Weight				
Vibration				
Shock				
Backlash				
Life				
ELECTRICAL				
Theoretical Electrical Travel				
Independent Linearity**				
Total Resistance				
Resistance Tolerance				
Operating Temperature				
Resolution				
Maximum Applied Voltage				
Recommended Wiper Current				
Electrical Connection				

See table below 5 lb (2.3 kg) 0.26 to 0.49 lb 20 g / 0.75 mm (rms) 5-2 kHz 50 g, 11 ms half sine 0.001 in. 100 Million operations

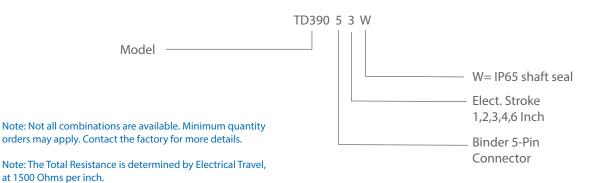
See table below 0.3 % 1.5 to 9K Ohms (depending on stroke length) 20% -65 to 1 0 5 C Infinite 40 Vdc <1 micro Amp Binder Series 681 Connector or equivalent (5 pin)

* Starting Force for "W" Seal 5 lbs. (2.3 kg) ** 5-95% of Theoretical Electrical Travel

Caution: Do not test on an OhmMeter on the Rx 1 scale or other current devices. Caution: Excessive Wiper Current can cause Output errors or damage. Caution: Zero shaft side load is recommended to achieve maximum life.

	Electrical Travel	Mechanical Travel	Total Resistance Body L	ength 'X'
TD390-5-1-W	1.0″	1.20″	1.5K Ohms	4.05″
TD390-5-2-W	2.0″	2.20″	3K Ohms	5.05"
TD390-5-3-W	3.0″	3.15″	4.5K Ohms	5.95″
TD390-5-4-W	4.0″	4.15"	6K Ohms	6.95″
TD390-5-6-W	6.0″	6.15″	9K Ohms	8.95″

ORDERING



Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use. While we provide application assistance personally, through our literature and the Transducers Direct web site, it is up to the customer to determine the suitability of the product in the application.

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