



Introducing the TD390S series Linear Position Transducer.



SERIES: TD390S

FEATURES

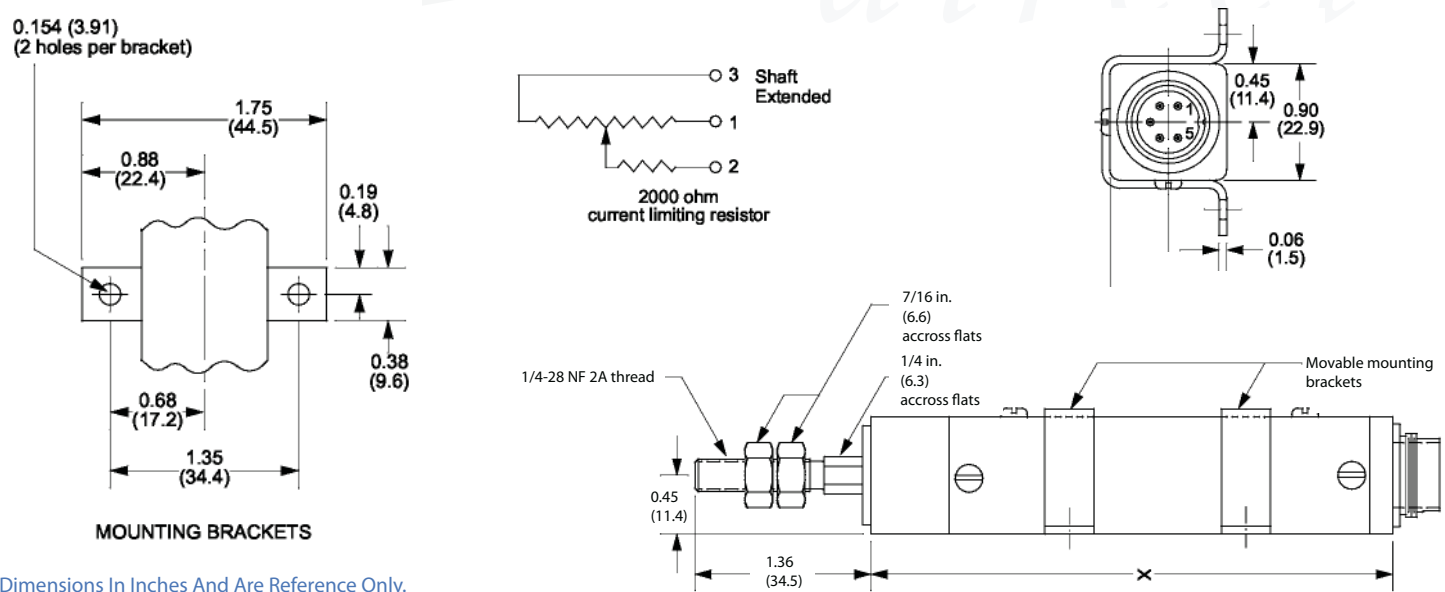
- 0.25 inch shaft
- IP65 shaft seal
- Absolute continuous measurement
- High performance bearings
- High level DC output
- 0.3% Linearity
- Rugged construction for manufacturing environment
- Protects internal components from factory environment
- Tested up to 1 billion operations
- Accurate position at power up
- Long life even with side load conditions
- Works with simple controls

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



Dimensions In Inches And Are Reference Only.



SPECIFICATIONS

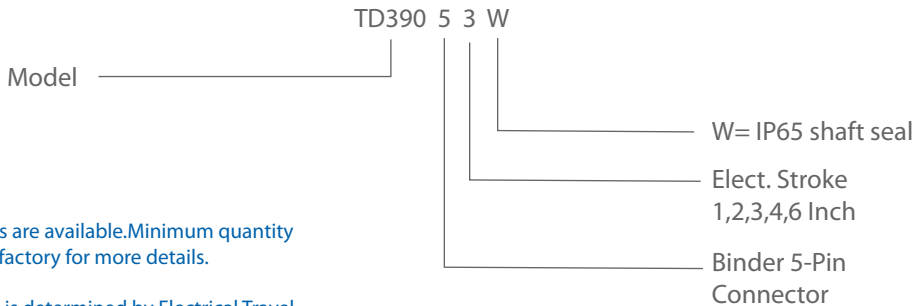
MECHANICAL	
Total Mechanical Travel	See table below
Starting Force*	5 lb (2.3 kg)
Total Weight	0.26 to 0.49 lb
Vibration	20 g / 0.75 mm (rms) 5-2 kHz
Shock	50 g, 11 ms half sine
Backlash	0.001 in.
Life	One Billion operations
ELECTRICAL	
Theoretical Electrical Travel	See table below
Independent Linearity**	0.3 %
Total Resistance	5K Ohms
Resistance Tolerance	20%
Operating Temperature	-65 to 105 C
Resolution	Infinite
Maximum Applied Voltage	40 Vdc
Recommended Wiper Current	<1 micro Amp
Electrical Connection	Binder Series 681 Connector or equivalent

* 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 Length 'X'
TD390-5-1-W	1.0"	1.20"	5K Ohms	4.05"
TD390-5-2-W	2.0"	2.20"	5K Ohms	5.05"
TD390-5-3-W	3.0"	3.15"	5K Ohms	5.95"
TD390-5-4-W	4.0"	4.15"	5K Ohms	6.95"
TD390-5-6-W	6.0"	6.15"	5K Ohms	8.95"

ORDERING



Note: Not all combinations are available. Minimum quantity orders apply. Contact the factory for more details.

Note: The Total Resistance is determined by Electrical Travel, at 1500Ohms per inch.

