

Introducing the TD390 series Linear Position Transducer. **Primarily Designed for** Cincinnati Milacron Injection Molding Machines.



SERIES: TD390 (6 to 56" stroke lengths)

FEATURES

- Vibration damped element
- Extruded wiper carrier guides
- Plastic elements
- High DC level output
- Absolute continuous measurement
- N E M A 4 water resistant shaft seal

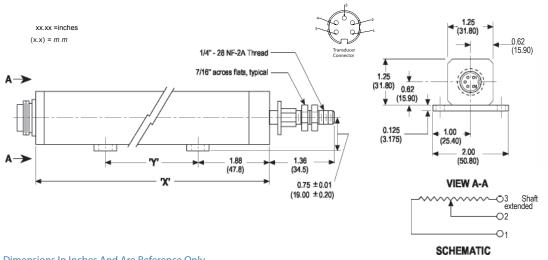
BENEFIT

- · No wiper bounce in high vibration Environments
- · Smooth operation under misalignment
- Works with simple controllers
- · Accurate position at power-up
- Protects internal components from environments

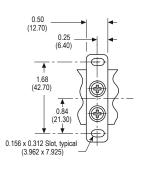
DESCRIPTION

The TD390 has a rugged long-life design featuring greater resistance to vibration and a smooth high quality signal. It has a solid stainless steel shaft, longer front-end bearings, a vibration-free damped element and continuous measurement. Carrier guides extruded the full length of the housing insure smooth operation even under side load conditions. A direct drop-in replacement for Waters, Data Instruments, Novotechnik, Gefran units. The newly designed internal components provide improvements which were developed after worldwide testing and field experience.

DIMENSIONS



pin 1 = com / Blackpin 2 = output + / Whitepin 3 = Supply V + Red



Dimensions In Inches And Are Reference Only



SPECIFICATIONS

MECHANICAL

Total Mechanical Travel

Starting Forces*
Total Weight

Vibration**
Shock
Backlash

Life

ELECTRICAL

Theoretical Electrical Travel

Independent Linearity

Total Resistance

Resistance Tolerance

Operating Temperature

Resolution Infinite
Insulation Resistance

Dielectric Strength

Recommended Wiper Current

Electrical Connection

Maximum Applied Voltage

6 to 56 in.

(150 to 1420 mm)

5.0 lb (2.26 kg)

0.8 to 5.5 lb

(0.36 to 2.5 kg)

20 g rms/0.75 mm 5-2 Hz

50 g, 11 ms half sine

0.001 in.

(0.025 mm)

100 Million Operations

6.0 to 56.0 in. (150 to 1420 mm)

0.3% Over Theoretical Electrical Travel (6" to 36")

1% Over Theoretical Electrical Travel 48" & 56")

5K Ohms (6" to 24"), 10K Ohms (30" to 56")

20%

-65° to 105° C (-85° to 221° F)

1000 M Ohms @ 500 Vdc

1000 V rms

<1 micro Amp

5 Pin Binder 681

Connector or Equivalent

30 Vdc

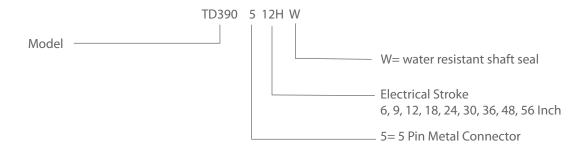
Dimensions For 6" to 48" Units

X = Electrical Travel Plus 3.19" Y = Electrical Travel Minus 1.00"

Caution: Do not test on an Ohm Meter 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.

ORDERING



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

Specificationsmay change without notice. The informationwe 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 Directweb site, it is up to the customer to determine the suitability of the product in the application

^{*}Starting force 5lbs. MAX

^{**}For vibration levels up to 50grms and higher additional housing clamps are required