

"APPLYING TODAY'S TOOLS WITH YESTERDAY'S EXPERIENCE PROVIDING OUR CUSTOMERS THE SOLUTIONS OF TOMORROW."

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



SERIES: TD390 (6 to 56" stroke lengths)

FEATURES

- BENEFIT
- Extruded wiper carrier guides

Vibration damped element

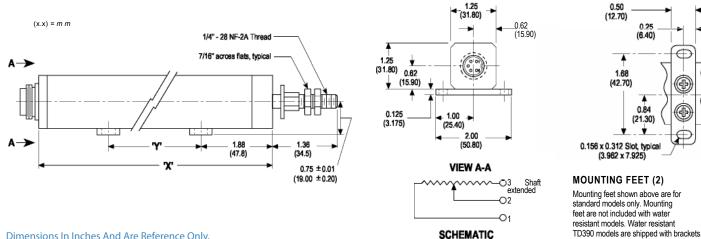
- Plastic elements
- High DC level output
- Absolute continuous measurement
- N E M A 4 water resistant shaft seal

- No wiper bounce in high vibration Environments
- Smooth operation under misalignment
- Tested up to one billion operations
- 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



Dimensions In Inches And Are Reference Only.

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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

*Starting force 5lbs. MAX **For vibration levels up to 50grms and higher additional housing clamps are required

Dimensions For 6" to 48" Units

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

6 to 56 in.

(150 to 1420 mm)

20 g rms/0.75 mm 5-2 Hz

One Billion Dither Operations

6.0 to 56.0 in. (150 to 1420 mm)

-65° to 105° C (-85° to 221 ° F)

1000 M Ohms @ 500 Vdc

Connector or Equivalent

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")

50 g, 11 ms half sine

5.0 lb (2.26 kg)

0.8 to 5.5 lb (0.36 to 2.5 kg)

0.001 in. (0.025 mm)

20%

1000 V rms

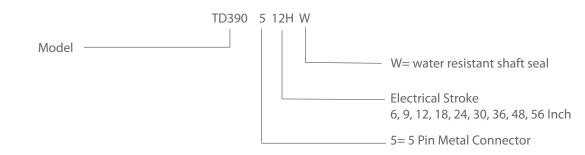
30 Vdc

<1 micro Amp

5 Pin Binder 681

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.

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