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

FEATURES

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

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.

pin 1 = com / Black
pin 2 = output + / White
pin 3 = Supply V + Red

Notes:

- Water resistant Models are rated to NEMA 4
- 3. Y' = Electrical Travel minus 1.00 inches
- 2. X' = Overall Length equals Electrical Travel plus 3.19 inches
- 1. Total Mechanical Travel equals Electrical Travel plus 0.090 inches minimum
- Connector or Equivalent
- Binder Series 681
- Molding Machines.
- Primarily Designed for Molding Machines.
- INNOVATIVE SENSORS

FOR INDUSTRIAL AND HOME AUTOMATION
SPECIFICATIONS

MECHANICAL

Total Mechanical Travel 6 to 56 in. (150 to 1420 mm)
Starting Forces* 5.0 lb (2.26 kg)
Total Weight 0.8 to 5.5 lb (0.36 to 2.5 kg)
Vibration** 20 g rms/0.75 mm 5-2 Hz
Shock 50 g, 11 ms half sine
Backlash 0.001 in. (0.025 mm)
Life 100 Million Operations

ELECTRICAL

Theoretical Electrical Travel 6.0 to 56.0 in. (150 to 1420 mm)
Independent Linearity 0.3% Over Theoretical Electrical Travel (6” to 36”)
1% Over Theoretical Electrical Travel (48” & 56”)
Total Resistance 5K Ohms (6” to 24”), 10K Ohms (30” to 56”)
Resistance Tolerance 20%
Operating Temperature -65° to 105° C (-85° to 221 ° F)
Resolution Infinite
Insulation Resistance 1000 M Ohms @ 500 Vdc
Dielectric Strength 1000 V rms
Recommended Wiper Current <1 micro Amp
Electrical Connection 5 Pin Binder 681
Maximum Applied Voltage 30 Vdc

*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”

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

TD390 5 12H W

Model

W= water resistant shaft seal
Electrical Stroke 6, 9, 12, 18, 24, 30, 36, 48, 56 Inch
5= 5 Pin Metal Connector

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

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.