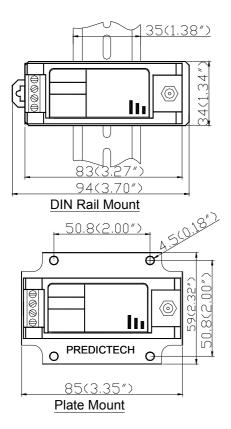


TR3102 Proximity 3-Wire Transmitter for Axial Position/ Phase Reference

The TR3102 is a cost-effective solution for monitoring the axial position or phase reference on balance of plant machines. The TR3102 combines the proximity probe driver and the signal conditioning circuit into one package. It works with the proximity probe and extension cable as a system.

Features

- ✓ Does not require proximity probe driver
- ✓ Buffered output/GAP will transmit 300 meters (1,000 feet)
- ✓ Compatible with other manufacturers' proximity probes (5mm, 8mm and 11mm)
- Aluminum casted case (copper free) with epoxy potting for better environmental protection and reliability
- ✓ Same size as a proximity probe driver





Specifications

Electrical

DCS or PLC Power Supply: 20-30VDC Sensor Interface: Connection: Special 95 Ω coaxial cable with connector Probe: 5 meter or 9 meter proximity probe and extension cable works with 5mm, 8mm, and 11mm probes Proximity probe includes: TM0180, TM0105, TM0110, 3300, 7200, 990 series. Sensor Linear Range (reference with AISI 4140 steel): 5mm, 8mm probe: 2.0 mm (80mil) Approximately 0.25mm (10mil) to 2.25mm (90mil) 11mm probe: 4.0mm (160mil) Approximately 0.4mm (15mil) to 4.4mm (175mil) 4-20mA Transmission: 2-wire, source Buffered Output (GAP V): Raw position signal Nominal 2-18VDC Impedance: 1,000 Ω Maximum cable distance: 300m (1,000ft) Sensitivity: +8.0mV/um (200mV/mil) nominal Frequency response: 0 - 10 KHz Maximum Load: **500** Ω System Self-test: System OK: output 4-20mA System Not OK: output < 3.0mA





Physical Height: 75mm (2.95") Weight: 1.0kg (2.0 lbs)

Environmental

Temperature: Operation: -40°C to +70°C Storage: -40°C to +100°C Humidity: 90% non-condensing

Order Information

* Factory Default Standard Configuration: TR3102-E00-G00-S00 8mm Probe: TM0180-07-00-05-10 Extension Cable:

TM0181-040-000

TR3102-EXX-GXX-SXX

EXX: Probe and Cable (not included)

E00*: TM0180, 8mm Probe, 5m Cable E01: TM0180, 8mm Probe, 9m Cable E02: 3300, 8mm Probe, 5m Cable E03: 3300, 8mm Probe, 9m Cable E04: 7200, 8mm Probe, 5m Cable E05: 7200, 8mm Probe, 9m Cable E06: TM0105, 5mm Probe, 5m Cable E07: TM0105, 5mm Probe, 9m Cable E08: TM0110, 11mm Probe, 5m Cable E09: TM0110, 11mm Probe, 9m Cable E10: 3300, 11mm Probe, 5m Cable E11: 3300, 11mm Probe, 9m Cable E12: 7200, 11mm Probe, 5m Cable E13: 7200, 11mm Probe, 9m Cable E14: 3309 Probe, 5m Cable E15: 3309 Probe. 7m Cable

Order Information Continued TR3102-EXX-GXX-SXX

GXX: Mount G00: DIN rail mount G01: Plate mount SXX: Approval S00*: CE

TR3102 Accessories

The TR3102 works with a proximity probe and extension cable.

TM0180: 8mm probe TM0105: 5mm probe TM0110: 11mm probe TM0181: Extension cable TM900: Power converter TM0200: 3-1/2 digit display unit BNC-3: BNC adaptor for portable data collector



Field-Wiring Diagram

