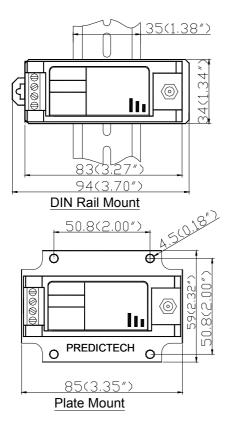


TR3101 Proximity 3-Wire Transmitter for Radial Shaft Vibration

The TR3101 is a cost-effective solution for monitoring the radial vibration on balance of plant machines. The TR3101 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 signal up to 300 meters (1,000 feet)
- ✓ Compatible with other manufacturers' proximity probes (5mm, 8mm and 11mm)
- Aluminum casted (copper free) case with epoxy potting for better environmental protection and reliability
- ✓ Same size as a proximity probe driver





Specifications

Electrical

Power Supply: 20-30VDC Frequency Response (±3dB): 2.0 - 3,000Hz Probe and cable: 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 ANSI 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) **Overall Vibration:** 4-20mA; Source Buffered Output/ GAP: Original vibration, un-filtered Nominal: 2-18VDC Impedance: 500 Ω Maximum cable distance: 300m (1,000ft) Sensitivity: 8.0mV/um (200mV/mil) nominal Maximum Load: **500** Ω Isolation: > 500Vrms; circuit to case System OK: System OK: output 4-20mA System Not OK: output < 3.0mA





Physical Height: 75mm (2.95") Weight: 0.5 kg (1.0 lb)

Environmental

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

Order Information

* Factory Default Standard Configuration: TR3101-A00-E00-G00-S00 8mm Probe: TM0180-07-00-05-10 Extension Cable: TM0181-040-00

TR3101-AXX-EXX-GXX-SXX

AXX: Full Scale

A00*: 0 - 200um (8.0mil) pk-pk A01: 0 - 500um (20mil) pk-pk A02: 0 - 100um (4.0mil) pk-pk A03: 0 - 250um (10mil) pk-pk A04: 0 - 630um (25mil) pk-pk A05: 0 - 125um (5.0mil) pk-pk **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

Field-Wiring Diagram

EXX: Probe and Cable Continued

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, 9m Cable E13: 7200, 11mm Probe, 9m Cable E14: 3309 Probe, 5m Cable E15: 3309 Probe, 5m Cable E15: 3309 Probe, 7m Cable **GXX: Mount** G00*: DIN rail mount G01: Plate mount **SXX: Approval**

S00*: CE Mark

TR3101 Accessories

The TR3101 requires a proximity probe and extension cable to work as a system.

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



