



*PROTECTION & RELIABILITY  
OPTIMIZATION INSTRUMENTS*

A CTC COMPANY

# P R O D U C T M A N U A L

## PXE150/250 Series



**Enclosure for Proximity Probe Drivers**

# SECTION 1: OVERVIEW

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# SECTION 1: OVERVIEW

## Introduction

This document contains information on the operation, installation and maintenance of the PXE150/250 Series Proximity Probe Driver Enclosures. This manual is an overview of the system and references the specific component manuals. User manuals are provided with the system for all configurable internal components.

## Description

The PXE150/250 Series Enclosures protects up to 6 proximity probe drivers from dirt, dust, oil and water. Both the PXE150 & 250 Series enclosures are NEMA 4X (IP66) rated. The drivers are pre wired, available with optional power supply. Output from the driver is available via screw terminals on driver and/or BNC connector. See MNX10060 for specific electrical and performance information for the proximity probe drivers.

Optional power supply accepts an input voltage of 100 – 240VAC at 50-60Hz, 1.3A output current at 24VDC out.

## Selection Guide

Below is a guide to help select which PXE150 series enclosure fits your specific requirements.

PXE150  -  -

Temperature	# of Channels	Enclosure Entry	Enclosure Exit
P = Power Supply Blank = No Power Supply	01 = 1 channel 02 = 2 channels 03 = 3 channels 04 = 4 channels 05 = 5 channels 06 = 6 channels	A = None B = 1" Conduit Fitting & 1/2" conduit fitting for power C = Cord Grips & 1/2" conduit fitting for power	A = None B = Conduit Fitting

**Probes, Cable, and Drivers Sold and Specified Separately**

**Note: 1/2" Conduit Fitting for Power Supply (PXE150P Series)**

**Example Part Number: PXE150P-06-AA**  
*Power supply, 6 channels, no enclosure entry, no enclosure exit*

Figure 1 - Ordering Information

# SECTION 1: OVERVIEW

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## Specifications

### Environmental:

Temperature Range: -15°F(-10°C) to 140°F(60°C)  
Humidity Range: 0-95% Relative, Non-condensing

### Electrical:

#### Operating Power:

PXE150P/250P Series 100-240VAC, 1.3A & 50-60Hz  
PXE150/250 Series 24VDC to be provided by end user

## Physical:

### Materials:

PXE150 Series Fiberglass  
PXE250 Series Stainless Steel

### Mounting:

Din Rail 35mm Standard Din Rail

### Dimensions:

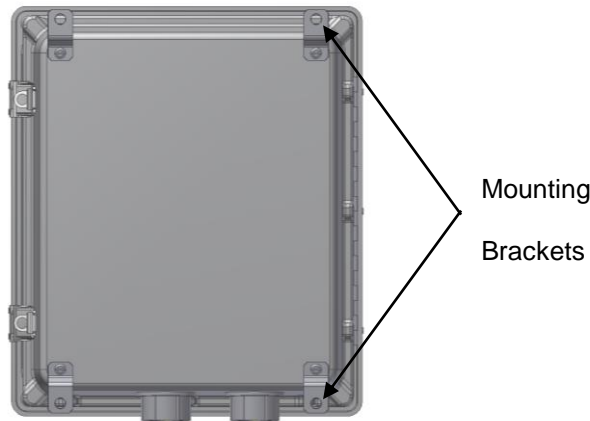
PXE150 Series 13.75" x 11.73" x 6.94" (349mm x 298mm x 176mm)  
PXE250 Series 13.50" x 10.00" x 7.25" (343mm x 254mm x 184mm)

- Specifications on a particular proximity probe may be obtained from the unit's label or by calling an Application Engineer for more information.

# SECTION 2: INSTALLATION

## Mounting

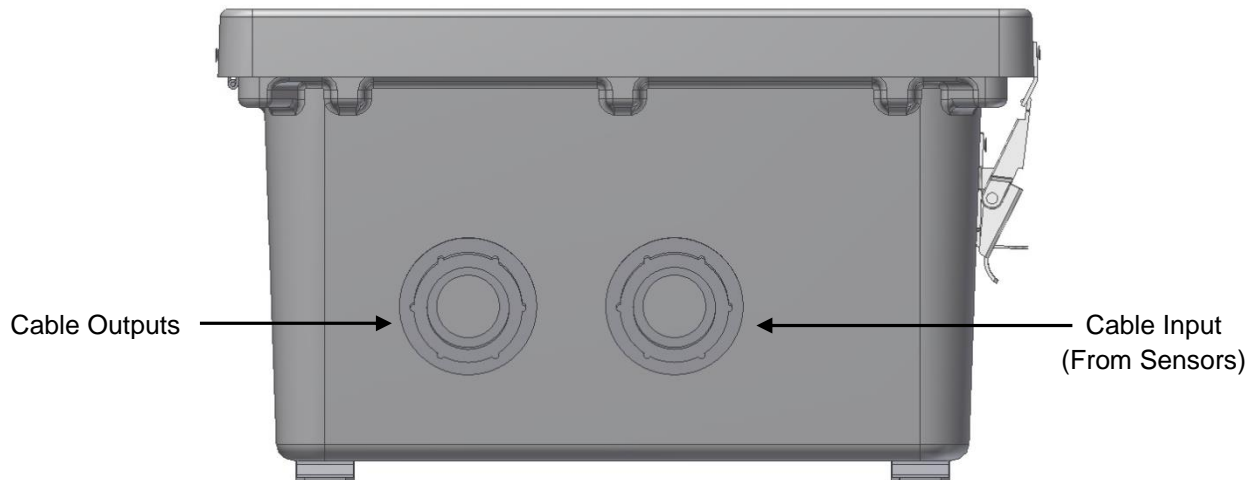
1. Attach the enclosed mounting brackets to the NEMA enclosure at the predetermined locations (if applicable).



**Figure 2. Mounting Bracket Location**

2. **Conduit Entry:** If you are running conduit to your enclosure, CTC recommends the conduit cable entry from the bottom of the enclosure when mounted.

**NOTE: To ensure moisture will not flow into the enclosure, a hole should be drilled at the lowest point in the conduit to provide drainage for any moisture.**



**Figure 3. Conduit Entry Layout**

# SECTION 2: INSTALLATION

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- 3. Grounding of the enclosure:** Attach Shield Ground Wire to earth ground. When mounting the enclosure to an earth ground (such as an I-Beam), mount the Shield Ground Wire behind one of the mounting brackets on the enclosure.

## Electrical Connections

### Inputs

Cables enter the enclosure through the designated entry option selected. All wires are connected to probe drivers within the enclosure.

### Outputs

Cables exit the enclosure through the designated exit option selected. All wires are connected to probe drivers within the enclosure.

# SECTION 3: OPERATION

## Operating Procedure

### Power

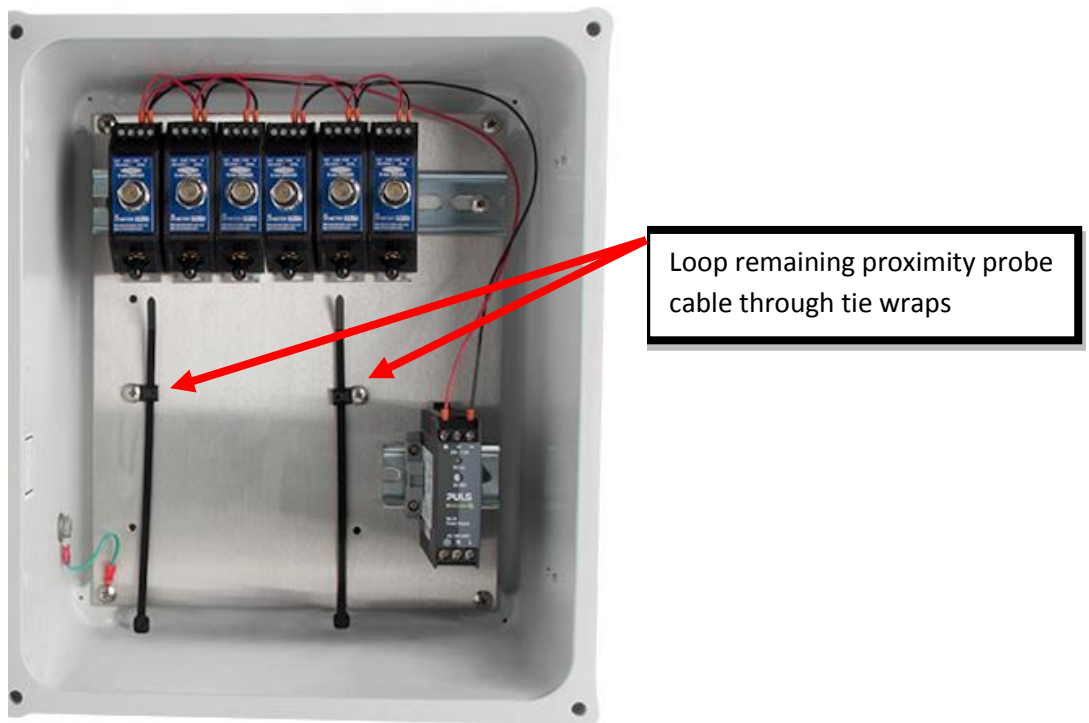
Optional AC power for the enclosure enters the enclosure through a ½" conduit fitting and is connected directly to the power supply.

### Proximity Probe and Driver Configuration

Refer to MNX10060 for configuration specifications and procedure for the proximity probe drivers.

### Operating Procedure

To operate the proximity probe drivers inside the enclosure, make sure that all wires are properly connected, then apply power.



**CAUTION: Make sure that power input does not exceed specified limits or damage to the system may result.**

### Calibration

The proximity probe drivers are calibrated prior to shipment and will not require any additional calibration.

# SECTION 3: OPERATION

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## Portable Data Collector Interfacing

In order to collect waveform data from the BNC jack on the proximity driver using a portable data collector that supplies constant current power, **the data collector must be set so that power to the sensor is turned off.** Failure to do so may result in a damaged or non-functional transmitter.

## Troubleshooting Chart

Problem	Recommended Action
-0.5 to -0.6 VDC Signal Output	Check Probe Cable / Ext Cable Connection
No Signal Output	Check Power Supply

**Note: For specific problem resolution, please call an Applications Engineer at 1-585-924-5900.**



# SECTION 4: MAINTENANCE

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## Maintenance

Once the PXE150/250 has been installed, minimal maintenance will be required. Basic visual checks to ensure integrity should be made periodically.

## General

There are no customer replaceable parts. The PXE150/250 has been designed for trouble-free service under normal operating conditions.

## Warranty

If any PRO product should ever fail, we will repair or replace it at no charge, as long as the product was not subjected to misuse, natural disaster, improper installation or modification which caused the defect.

### Contact Information

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