

Models PPSIM.. Sensor Interface Modules

DC-Powered Interface for PresencePLUS[®] P4 Sensors



Model PPSIM..T
(Terminal strip connection)



Model PPSIM..C
(DB-15 connection)

Features

- Low-cost interface between user's hardware and PresencePLUS P4 sensors
- Available with two methods for connecting to sensor, depending on model:
 - 13-pin terminal strip for cordset with flying leads
 - DB-15 connector for model P4C..SIM cordsets (see Cables on page 4)
- Available in current sinking (NPN) or current sourcing (PNP) output models
- LED indicators for sensor status and active outputs
- Integral External Trigger and Remote TEACH push buttons
- Easy-to-adjust 45° screw terminals for electrical wiring
- Built-in RS-232 serial port connector (DB-9, Female)
- Simple DIN-rail-mount or wall-mount configuration

Models

Models	Output*	Connections
PPSIM-NT	Current Sinking (NPN)	Two 13-pin Terminals
PPSIM-NC		One 13-pin Terminal One DB-15 Connector
PPSIM-PT	Current Sourcing (PNP)	Two 13-pin Terminals
PPSIM-PC		One 13-pin Terminal One DB-15 Connector

*NOTE: P4 Sensor output must be set to NPN mode when used with an NPN interface module. P4 Sensor output must be set to PNP mode when used with a PNP interface module. See the System Setup window in the PresencePLUS GUI for output selections.

Overview

The PPSIM.. series sensor interface module is a passive DIN-rail-mount or wall-mount module. It enables remote external trigger and TEACH capability and provides remote indication of sensor status for Banner PresencePLUS P4 Sensors.



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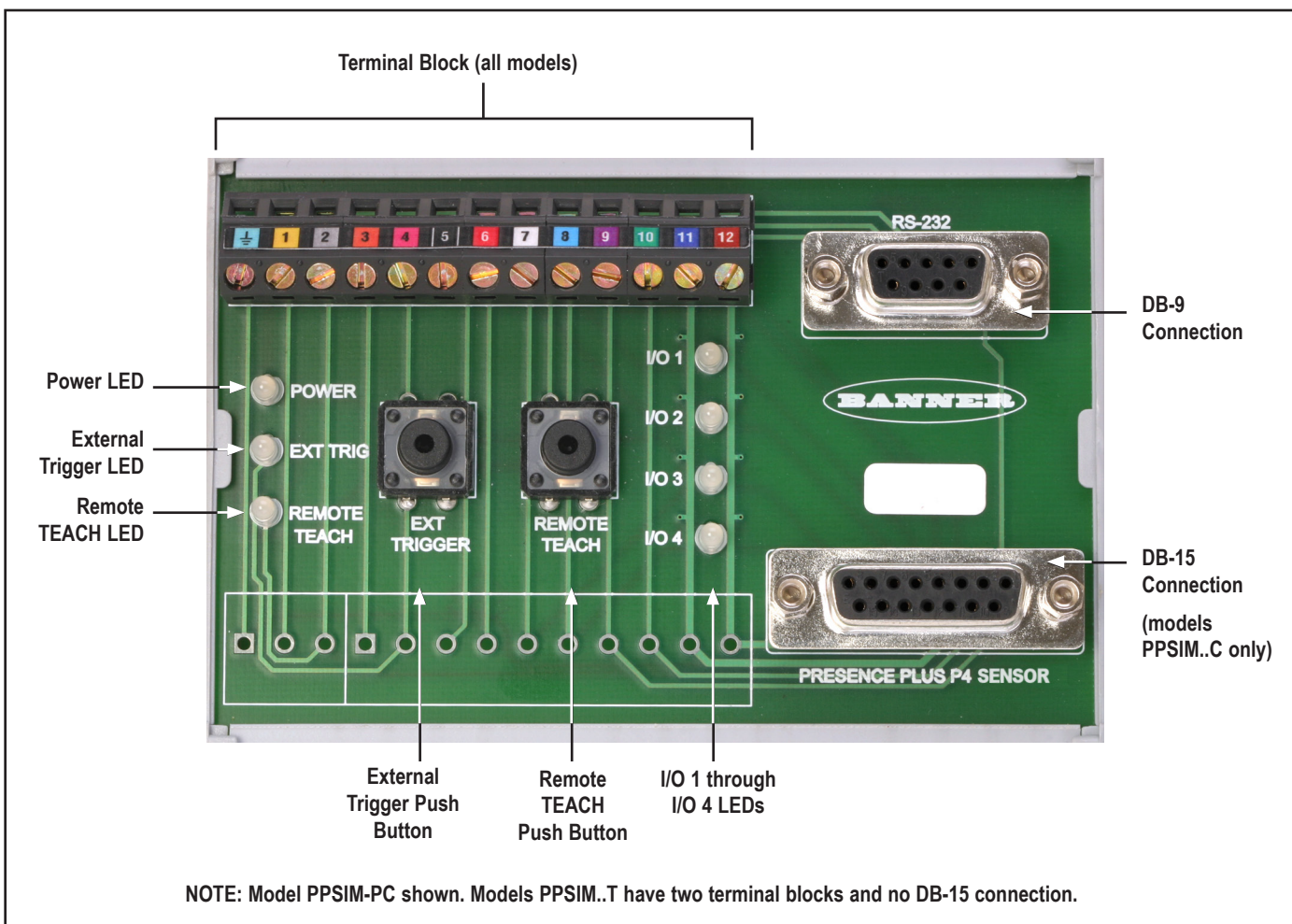


Figure 1. Features

Installation

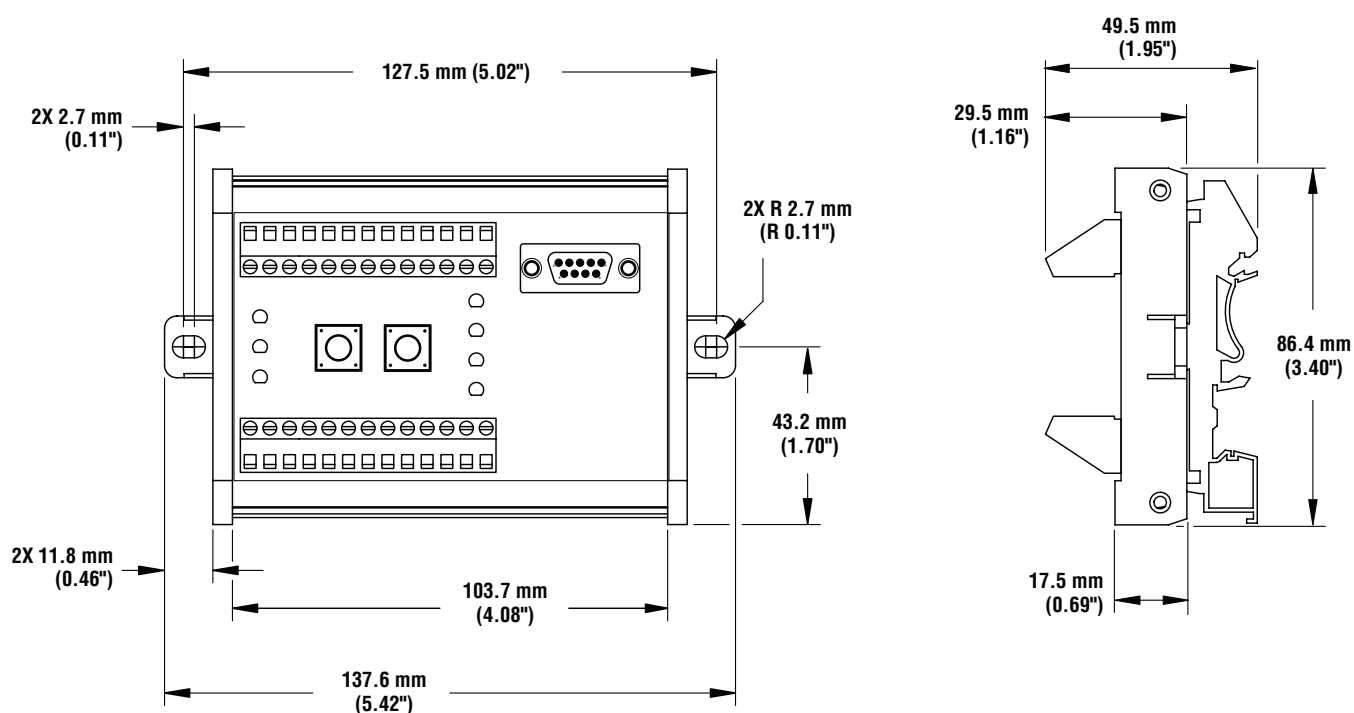
For mounting to a flat surface, unscrew one end cap, slide the DIN clips off of the housing, and replace the end cap. Use the screw-holes in the end caps for mounting to a flat surface.

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Specifications

Input Supply Voltage	10 - 30V dc (See <i>PresencePLUS P4</i> specifications for sensor data)	
Adjustments	External Trigger push button Remote TEACH push button	
Indicator LEDs	NPN Models	PNP Models
	Power Green: Power ON Red: Wrong polarity External Trigger Green: Active Remote TEACH Green: Active I/O 1 through I/O 4 Green: Conducting	Power Green: Power ON Red: Wrong polarity External Trigger Red: Active Remote TEACH Red: Active I/O 1 through I/O 4 Red: Conducting
Construction	PCB circuit board; plastic housing, end caps, and DIN rail mounting hardware	
Environmental Rating	IEC IP00: NEMA 1	
Connections	Terminal Strip: Accepts 12 to 24 gauge wire RS-232: DB-9 female PresencePLUS P4 Sensor (not included): DB-15 female, for SIM cordset (see Cables on page 4)	
Operating Conditions	Temperature: 0° to +50° C (+32° to +122° F) Max. Relative Humidity: 90% (non-condensing)	
Weight	Approximately 135 grams (0.3 lb.)	

Dimensions



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Terminal Block Wiring Table

The Terminal Block Wiring Table below is the same for all models.

Pin	Color	Description
1	Yellow	RS-232 TX
2	Gray	Remote TEACH
3	Orange	Product Change
4	Pink	External Trigger
5	Black	I/O 1
6	Red	I/O 2
7	White	I/O 3
8	Light blue	I/O 4
9	Violet	RS-232 RX
10	Green	RS-232 (Signal Ground)
11	Blue	Common (Signal Ground)
12	Brown	10-30V dc
13	Shield	Drain

Accessories

Cables (for use with PPSIM..C models)

Style	Model	Length
<i>PresencePLUS P4 DB-15 SIM</i>	P4C06SIM	2 m (6.5')
	P4C23SIM	7 m (23')
	P4C32SIM	10 m (32')



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