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 *Presence*PLUS *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 *Presence*PLUS 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 *Presence*PLUS *P4* Sensors.
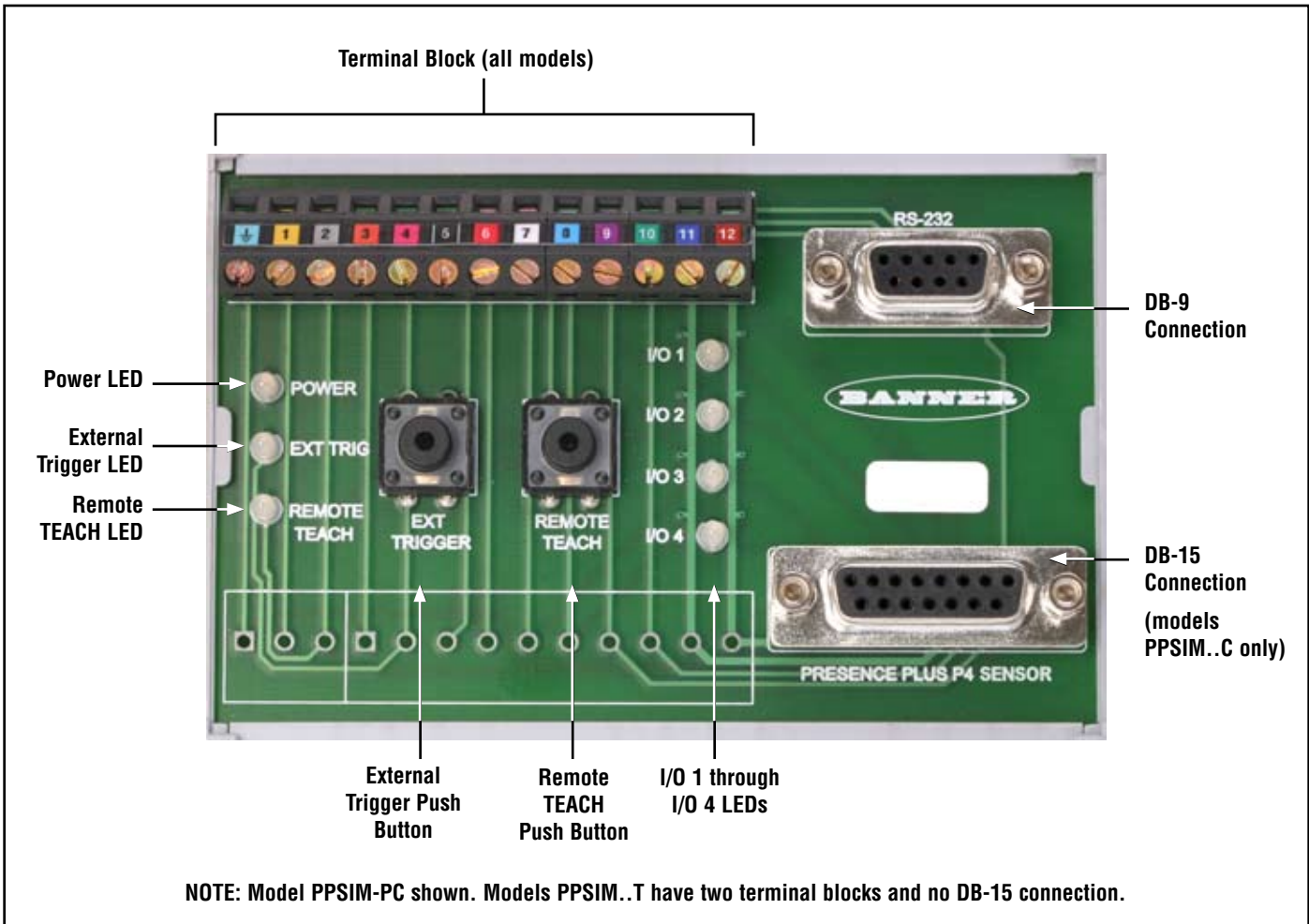
Models PPSIM.. Sensor Interface Modules

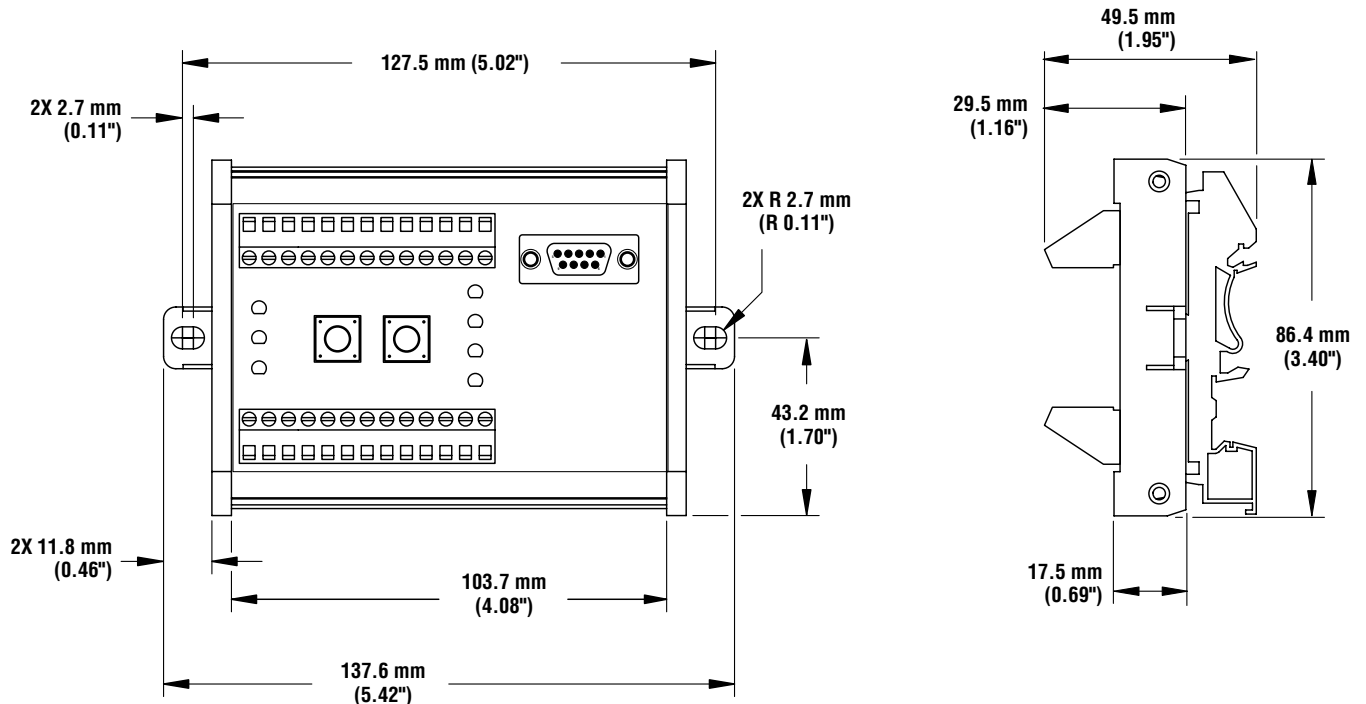**Figure 1. Features**

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.

Specifications

Input Supply Voltage	10 - 30V dc (See *Presence*PLUS *P4* specifications for sensor data)
Adjustments	External Trigger push button Remote TEACH push button

Indicator LEDs	<table><tr><th>NPN Models</th><th>PNP Models</th></tr><tr><td>Power
	  Green: Power ON **Red:** Wrong polarity
	External Trigger
	  Green: Active
	Remote TEACH
	  Green: Active
	I/O 1 through I/O 4
	  Green: Conducting</td><td>Power
	  Green: Power ON **Red:** Wrong polarity
	External Trigger
	  Red: Active
	Remote TEACH
	  Red: Active
	I/O 1 through I/O 4
	  Red: Conducting</td></tr></table>

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 ***Presence*PLUS *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

Models PPSIM.. Sensor Interface Modules

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
*Presence*PLUS *P4* DB-15 SIM	**P4C06SIM** **P4C23SIM** **P4C32SIM**	2 m (6.5') 7 m (23') 10 m (32')

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