E-PDB-SO50-V2

Multi-Frequency Single Photobeam Motion Sensor

Single infrared beam, Up to 50ft (15m)

The E-PBD-SO50-V2 is a simple, easy-to-use, and easy-to-install single-beam infrared motion sensor with 4 selectable frequencies. The device easily installs almost anywhere to provide an invisible beam that, when broken, sends a signal to a connected ENVIROMUX Environment Monitoring System to activate a light, siren, or other controlled device. The ENVIROMUX can also contact a configured user via email, text message, SNMP and other communication protocols. This makes the sensor perfect for use as part of an access control system, door or window monitor, retail store customer alert, or many other places where the user needs to know that someone has entered a specific room, building or other protected space. The E-PBD-SO50-V2 is weather-proof (rated IP65) and comes with a built-in AGC control circuit that helps to filter out possible disturbance caused by local lighting conditions.

Features:

- 4 selectable frequencies to reduce interference
- Small size for a less conspicuous installation
- Simple to install
- Signal strength indicator for easier alignment
- Weatherproof for indoor/outdoor use (IP65)
- Built-in AGC control to filter out lighting disturbances
- LED indicators for power, signal strength, and trigger
- Mounting hardware included

Specifications:

Number of beam channels		Single infrared beam
Number of beam frequencies		4
Sensor range		Up to 50ft (15m)
Infrared LED wavelength		940nm
LED beam spread angle		Approximately ±10°
Interrupt speed*		50ms
Input power		10~24VDC
Current draw (max)	Transmitter	15mA@12VDC
	Receiver	30mA@12VDC
Relay output		NO/NC relay (set by jumper, default is N.C.) 0.5A@30VAC/VDC
LED (Transmitter)		Green - Indicates connected to power
LEDs (Receiver)	Power (Green)	Indicates connected to power
	Signal (Yellow)	Indicates receiver's signal is weak or beam is broken
	Alarm (Red)	Indicates transmitter & receiver are not aligned or beam is broken
IP rating		IP65
Operating Temperature		-13°~131°F (-25°~55°C) maximum humidity 95%
Dimensions		$3^{11}/_{16}$"x$2^{3}/_{8}$"x$1^{13}/_{16}$" (94x60x46 mm)
Weight		2.6-oz (74g)

*This is the minimum time interval for breaking the beam which will trigger the output.

Overview:

Front — 2$^3/_8$" (60mm), 3$^{11}/_{16}$" (94mm)

Side — 1$^{13}/_{16}$" (46mm)

Transmitter   Front Cover Removed   Receiver

- Mounting Hole
- Alarm Indicator LED
- Channel Selection Switch
- Signal Strength LED
- Power LED
- Channel Selection Switch
- NC/NO Selector
- Wire Terminals
- Wire Terminals
- Wire Hole
- Wire Hole
- Mounting Hole