

Photobeam 3000

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Invented for life



- ▶ Dual beam detection improves false alarm immunity
- ▶ Range up to 90 m (300 ft) outdoors, 180 m (600 ft) indoors
- ▶ Selectable response time
- ▶ Small unobtrusive design

The pole or surface mount Photo Beam Detector is designed for indoor and outdoor applications.

System overview

Consisting of a separate transmitter and receiver, it is designed to activate an alarm when an intruder passes within the direct line of sight between the transmitter and receiver.

Functions

The ICS-FPB1-W30DS has a range of 30 m (100 ft) outdoors, or 60 m (200 ft) indoors. The ICS-FPB1-W60DS a range of 60 m (200 ft) outdoors, or 120 m (400 ft) indoors. The ICS-FPB1-W90DS a range of 90 m (300 ft) outdoors, or 180 m (600 ft) indoors.

Mounting features

Mounting and installing the detector is now easier than ever through easy-to-use mounting hole locations, an enlarged entry point of access to accept small to large, single or multiple cable set wires, side access alignment test terminals for voltmeter connection, front access sensitivity adjustment, built-in aiming optics ensures improved alignment, and accessible fastening screw locations that eliminate the need for unnecessary crawling or bending during installation.

Dust/insect cover features

The included foam sealing on both sides of the mounting plate ensures that the detectors are properly secured from insects and other environmental elements such as humidity and temperature fluctuations.

The improved cover design includes water flow channels to prevent water and dirt from accumulating in front of optic components, and eliminates the need for additional weatherproofing solutions.

Certifications and approvals

Region	Certification	
Europe	CE	EMC, RoHS [ISC-FPB1-W30DS, ISC-FPB1-W60DS, ISC-FPB1-W90DS with or without NH12T heater]

Technical specifications
Photobeam

	ISC-FPB1-W30DS	ISC-FPB1-W60DS	ISC-FPB1-W90DS
Maximum outdoor range	30 m (100 ft)	60 m (200 ft)	90 m (300 ft)
Maximum indoor range	60 m (200 ft)	120 m (400 ft)	180 m (600 ft)

Environmental considerations

Operating temperature	-25°C to +55°C (-13°F to +131°F) (96% or less)
Storage temperature/humidity	-30°C to +60°C (-22°F to +140°F) (96% or less)
IP rating (indoor/outdoor)	IP55

Mounting considerations

Location	Pole mount or surface mount
Horizontal adjustability	±90°
Vertical adjustability	±5°

Dimensions

Dimensions	77 mm x 177 mm x 83 mm (3 in. x 7 in. x 3.25 in.)
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Power requirements

	ISC-FPB1-W30DS	ISC-FPB1-W60DS	ISC-FPB1-W90DS
Transmitter current draw at 25°C	6 mA	10 mA	15 mA
Receiver current draw at 25°C	24 mA		
Voltage	10.5 VDC – 28 VDC.		
Alarm out	Form C relay (DC30V, 0.1A) maximum		
Tamper output	Form B relay (DC30V, 0.1A) maximum		

Sensitivity adjustments

Sensitivity	50 ms – 700 ms (selectable)
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Trademarks

All hardware and software product names used in this document are likely to be registered trademarks and must be treated accordingly.

Ordering information
ISC-FPB1-W30DS Photoelectric Detector

Provides an outdoor range of 30 m (100 ft) and an indoor range of 60 m (200 ft).
Order number **ISC-FPB1-W30DS**

ISC-FPB1-W60DS Photoelectric Detector

Provides an outdoor range of 60 m (200 ft) and an indoor range of 120 m (400 ft).
Order number **ISC-FPB1-W60DS**

ISC-FPB1-W90DS Photoelectric Detector

Provides an outdoor range of 90 m (300 ft) and an indoor range of 180 m (600 ft).
Order number **ISC-FPB1-W90DS**

Accessories
MP1 Metal Pole, 1 m (3 ft)

Straight metal poles measuring 1 m (3 ft) for pole mounting photoelectric detectors. Shipped in packages of two.
Order number **MP1**

MP2 Metal Pole, 1.2 m (4 ft)

Straight metal poles measuring 1.2 m (4 ft) for pole mounting photoelectric detectors. Shipped in packages of two.
Order number **MP2**

MP3 L-Curved Metal Pole

Curved metal poles for mounting to vertical surfaces for pole mounting photoelectric detectors. Shipped in packages of two.
Order number **MP3**

BH12T Photobeam Heater

Reduces the effects of frost, intense fog, cold, and damp conditions on photoelectric beam detectors. Shipped in packages of two.
Order number **BH12T**

ISC-FPB1-W30DS Photoelectric Detector

Provides an outdoor range of 30 m (100 ft) and an indoor range of 60 m (200 ft).
Order number **ISC-FPB1-W30DS**

ISC-FPB1-W60DS Photoelectric Detector

Provides an outdoor range of 60 m (200 ft) and an indoor range of 120 m (400 ft).
Order number **ISC-FPB1-W60DS**

ISC-FPB1-W90DS Photoelectric Detector

Provides an outdoor range of 90 m (300 ft) and an indoor range of 180 m (600 ft).
Order number **ISC-FPB1-W90DS**

ISC-FPB1-W60QS

Single channel quad-beam photoelectric detector designed for indoor and outdoor applications. Consisting of a separate transmitter and receiver. 60 m (196 ft) max outdoor range, 120 m (393 ft) max indoor range.

Order number **ISC-FPB1-W60QS**

ISC-FPB1-W120QS

Single channel quad-beam photoelectric detector designed for indoor and outdoor applications. Consisting of a separate transmitter and receiver. 120 m (293 ft) max outdoor range, 240 m (787 ft) max indoor range.

Order number **ISC-FPB1-W120QS**

ISC-FPB1-W200QS

Single channel quad-beam photoelectric detector designed for indoor and outdoor applications. Consisting of a separate transmitter and receiver. 200 m (656 ft) max outdoor range, 400 m (1312 ft) max indoor range.

Order number **ISC-FPB1-W200QS**

ISC-FPB1-W60QF

Four-channel quad-beam photoelectric detector designed for indoor and outdoor applications. Consisting of a separate transmitter and receiver. 60 m (196 ft) max outdoor range, 120 m (393 ft) max indoor range.

Order number **ISC-FPB1-W60QF**

ISC-FPB1-W120QF

Four-channel quad-beam photoelectric detector designed for indoor and outdoor applications. Consisting of a separate transmitter and receiver. 120 m (293 ft) max outdoor range, 240 m (787 ft) max indoor range.

Order number **ISC-FPB1-W120QF**

ISC-FPB1-W200QF

Four-channel quad-beam photoelectric detector designed for indoor and outdoor applications. Consisting of a separate transmitter and receiver. 200 m (656 ft) max outdoor range, 400 m (1312 ft) max indoor range.

Order number **ISC-FPB1-W200QF**

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