

LONG RANGE INFRA-RED BEAM COUNTER



LRIRB1



- * **VERY LONG SENSING DISTANCE**
- * **HIGH RELIABILITY**
- * **LOW BATTERY CONSUMPTION**
- * **EASY TO INSTALL (NO LEADS)**
- * **NOT EFFECTED BY SUNLIGHT**

Description

The LRIRB1 is a new model of people counter which uses fast pulse narrow beam IR. The counter consists of an infra-red beam transmitter and receiver, and operates by detecting the change in the signal as a person walks between them. The transmitter and receiver can be set up to 12 metres apart. The counter has very low battery consumption and the AA lithium batteries will last for over a year. The unit is very easy to set up as there is no cable between the two units. The sensor has a narrow beam and can therefore discriminate between individuals in groups if the unit is positioned where walkers normally walk in single file. The counter is supplied in strong polycarbonate housing with tamper-proof screws to help prevent damage from vandals.

Logger

A logger can be supplied which is integral with the unit or attached externally via a lead. The logger records the number of people which pass in a preset time interval. The logger is downloaded directly onto a PC via a download lead, where the software allows the user to look at the data in a graphical or text form and also allows the user to export the data into Excel etc.

Wireless enabled

The LRIRB1 can be supplied with a radio transmitter which automatically uploads the number of people counted onto a PC via a receiver unit. The receiver can collect data from several counters. The data is stored in a table on the PC, which can be very easily imported into an Excel spreadsheet for further analyses.

For units which are a long distance from the PC repeater units can be supplied to transfer the information.

Specifications

Detection Method:	Fast pulse narrow beam Infra-red
Housing:	Robust polycarbonate housing
Transmitter:	80 mm x 82 mm x 56 mm
Receiver:	120 mm x 120 mm x 85 mm
Sensing distance:	12 metres max.
Waterproofing:	Waterproof to British Standard IP65
Indicators	
Receiver:	6 digit LCD counter (optional when supplied with logger or wireless interface) Beam strength LED indicator Battery check LED
Transmitter:	Battery check LED
Controls:	Display and indicators ON (magnetic switch) Reset counter (magnetic switch)
Batteries:	Receiver and Transmitter 2AA lithium batteries lasting >360 days



TRANSMITTER



RECEIVER
With wireless transmitter

Data logger:

Maximum number of records:	16092
Record interval:	Variable up to 10 days.
Maximum count per interval:	255
Total logging time:	If set at 1 hour interval the logger will log for up to 670 days
Information stored:	Number of people passing in interval Time and date of record Identifying text
Preset start time:	Can be set to start counting at a preset time
Battery:	Lithium, will operate for over 2 years.
Indicator:	Logging in progress indicator.
Interface Lead:	Connects to a waterproof connector on the logger and to the computer's 9 pin serial output (a USB to serial converter can be supplied if required).
Dimensions:	60mm x 50mm x 35mm
Software:	
Format:	IBM PC or compatible, from Windows 3.1 to current.
Data View Options:	Graph Data table Data statistics
Output format:	Spreadsheet format (e.g. Excel, Lotus 1,2,3) Text format Graphical output Count analysis

Wireless enabled counters

Frequency	
Transmitter	433MHz
Repeaters	433MHz and 2.4GHz
Receiver	433MHz or 2.4GHz

Detection distance
(Typical indoor distances, these will be effected by wall construction)

Transmitter to repeater	> 30m
Transmitter to receiver	> 30m
Repeater to repeater	> 60m
Repeater to receiver	> 60m

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LRIRB1

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