



**MAGDRIVE**

**Info**



PE-2Series 1.Pub

## PE-2 PHOTOELECTRIC SENSORS

### DESCRIPTION

The PE-2 Infrared Photoelectric Beam is an outdoor detection device that can be used to open or prevent closure of a door/gate or just indicate that the beam has been broken by using a light or buzzer. The PE-2 is manufactured using modern Surface Mount Technology and sophisticated electronics resulting in a product that has greater reliability and reduced size.

When used with an AUTO CLOSE feature on ATA control boards and operators, PE-2 will prevent a door/gate from closing when a vehicle is obstructing the door/gate way. This provides your access system with added safety and security.

### FEATURES

- Wide range 30m
- Even in poor optical conditions, the PE-2 can still be used (range reduced to under 10m)
- Dual input voltage
- Low power consumption
- High rated relay contacts
- Removable terminal block for easy wiring
- Simple installation, using slide off mounts
- Easy beam alignment and testing procedures
- Weather proof casing made from high tech ploymer
- Cable glands supplied with each beam

### INFORMATION

Installation of the PE-2 is designed to be simple and trouble free. The side mounts of the PE-2 are removable to allow easy fitting. The input voltage to the PE-2 can be either 12V AC/DC or 24V AC/DC.

The different voltages are selected using a shunt pin located on

each of the transmitters and receiver boards. The transmitter indicates 'power on' using a green LED indicator. A red LED indicator mounted on the receiver shows alignment. The PE-2 is aligned correctly when the red LED is bright. Two adjusting screws allow simple horizontal and vertical aligning.

### TECHNICAL INFORMATION

Range:	30m
Application:	Outdoor use
Voltage:	12V AC/DC
Current:	60mA max
Temperature:	-15°C to +60°C
Output:	Relay N/O & N/C single pole, dry contacts. Contacts rated to 24V DC @ 1A.
Dimensions:	59 x 87 x 40mm
Indicators:	Green power on LED Red beam align LED

### INSTALLATION

#### EXTERNAL MODEL

- 1 Fix the outer containers into place (4), maintain the best possible alignment between the transmitter TX and the Receiver RX.
- 2 Insert the two side covers (8) and carry out the electrical connection.
- 3 Fit the supplied rubber gasket (6) to the cover, remember that the joint should be positioned on the lower side of the cover to ensure greater waterproofing.

### CENTRING AND TESTING

Switch on the power to the team PE-2, check for the presence of 24V at the terminals (12V if the jumper is in the upper

position) then carry out the centring by turning the screws marked vertical and horizontal (fine tuning is indicated by the maximum luminosity of the red LED on the Receiver RX).

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Check the good working order of the installation by interrupting the infrared beam several times. The red LED on the Receiver should turn off and the relays activate. This operation should be repeated after the cove (7) on the Transmitter and Receiver have been fitted (with the centring test template after testing).

- The installation of these appliances must be carried out by professionally qualified persons as requested by the local

standards and regulations in force.

- Non compliance with the above mentioned instructions could compromise the good working order of the appliance and the safety on the operator therefore the manufacturer accepts no liability for situations arising from failure to comply with these safety rules.
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