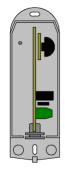
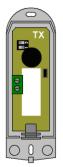
Functional description

FA33 is a single relay IR photobeam. Transmitters may run on battery or 12Vdc, but not both! Receivers need external power. Transmitters have power settings for 5m or 10m range. The battery's life depends on power setting. The slim body ensures the beam can be placed at the very edge of the opening. The PCB can be set at 0° or 90° angle.

Tx and Rx both have a red flashing LEDs. When the beam is blocked, an LED on RX flashes every 3 secs. When unblocked LED flashes 4 times then pauses. Receiver also has a red LED that is on when the photo beam is not interrupted.







12-24V ac/dc Rx power 5m or 10m Range **Dimensions** 37.5 x 36 x 108mm **Rx** current 40mA @ 12V TX current Hi = 60μ A, lo = 30μ A CR123A 3V 1.4-1.6Ahr **Battery** Relay 150mA @ 27Vac SPCO

FA33 specification

IP rating IP55

-90° or 0° or +90° **Angle** Beam splay -10db @ ±5°



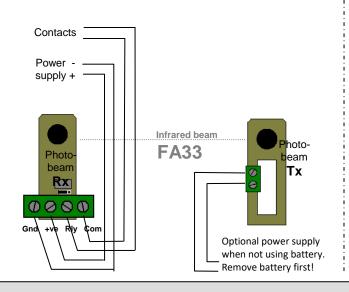
Installation

Single infrared beams should be 50 to 60cm above ground. Screw the removable back plate to a flat surface. Pull the cable through the wall an connect by screw terminals. Cables should be sealed into the case back plate with electrician's putty or the grommet supplied.

It is a good precaution to spray a conformal coating on the PCB before closing. This dispels moisture that can reduce range. WD40 also is a good insert repellent. Clip the covers on and secure with the two screws provided.

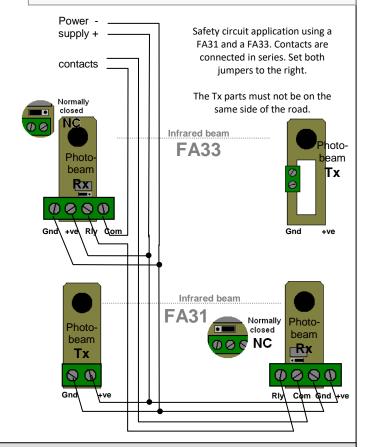
Connections

The volt free relay contact can be set NO/NC by jumper. Relay response time is suitable for being driven from a Cat.2 switched supply. Receiver supply is polarity dependant, negative to Gnd.





4 flashes - stop - 4 flashes - stop Correct operation 1 flashes every 3 secs Beam blocked 3 flashes or 2 flashes every 3 secs Poor signal from Tx



Forematic

9 Vanallovs Estate Stoke Row Henley RG9 5QW