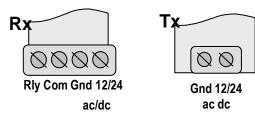
Functional description

FA31 is a single relay infrared photobeam working from 12V or 24V ac/dc. The slim body ensures the beam can be placed at the very edge of the opening. The circuit boards inside can be set for -90° or 0° or +90° angle.

Both Tx and the Rx have a red power LED on all the time. The Rx also has a red LED that is on when the photobeam is not interrupted. Both are visible through the case.



Installation

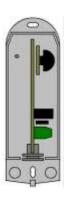
Infrared elements should be 500mm to 600mm from ground level. Screw the case back plates flat mounting. Connections are by screw terminals. Cables should be sealed into the case back plate with electricians putty or grommet supplied.

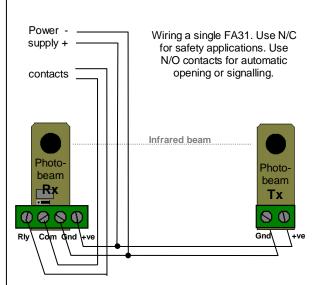
It is a good precaution to spray a conformal coating on the PCB before closing. WD40 also is a good insert repellent.

Orientation

The circuit board in Tx and Rx can be rotated 90° to face in either direction. This helps to mount the beam on extreme of the opening.







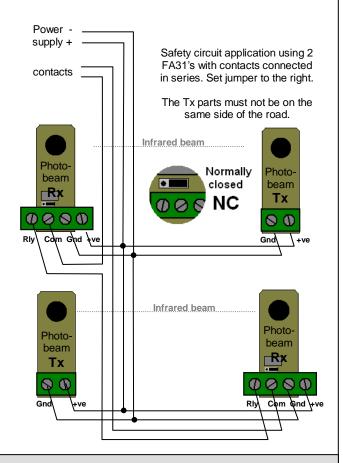
FA31 specification **Power** 12/24V ac/dc Range 12m **Dimensions** 37.5 x 36 x 108mm Rx current 40mA @ 12V **TX** current 50mA @ 12V 940nm Wavelength Modulation 2.5kHz Relay 150mA @ 27Vac SPCO IP rating IP55 -90° or 0° or $+90^{\circ}$ Angle

-10db @ ±5°

Beam splay



The relay contact is volt free. A jumper on the Rx board allows the user to choose NO or NC contacts. Relay response time is suitable for being driven from a Cat.2 switched power supply. FA30 runs from 12V or 24V without needing to be set. When running from a dc supply the photobeam is polarity sensitive, where Gnd terminal is negative.



Forematic

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