



## **Functional description**

C920 is a two part vandal resistant photo-beam for industrial applications. The die cast aluminium shell has a tough polycarbonate chassis that allows the circuit board to be mounted at any angle over 180°. The receiver has dual relays for Cat2 certification. infrared photo-beam working from 12V or 24V ac/dc.

A LED on the Tx is lit all the time. The Rx LED is on when the beam is uninterrupted. Both are visible through the case.

### Installation

Infrared elements should be 500mm to 600mm from ground level. Screw the chassis to a flat mounting surface to be sure the O ring water seal is effective.

There is a protected cable entry point beneath the case and a rear entry point. Terminals take up to 20 awg wire 0.75mm. Cables should be sealed into the chassis with a compression gland or the grommet supplied. It is a good precaution to spray a conformal coating on the PCB before closing. WD40 also is a good insert repellent.



## C920 specification

**Power** 12/24V ac/dc (set on jumper)

Range 20m

Dimensions60 x 52 x 130mmLight current108mA@24V

Wavelength 950nm Modulation 1.33kHz

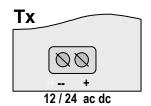
Relay 1A @ 24Vac SPCO

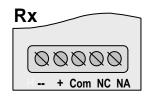
IP rating IP66

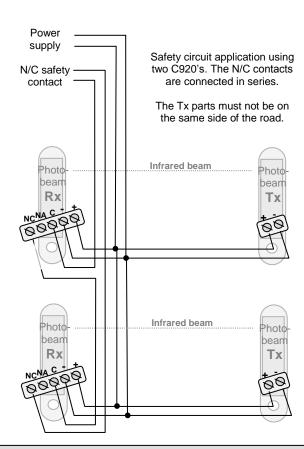
**Angle** -90° to +90°

#### **Connections**

Relay contacts are volt free. Relay response time is suitable for being driven from a Cat.2 switched power supply. C920 runs from 12V or 24V. Insert the jumper for 12V operation. When running from a dc supply the photo-beam is polarity sensitive.







# **Forematic**

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