



C920 specification	
<b>Power</b>	12/24V ac/dc (set on jumper)
<b>Range</b>	20m
<b>Dimensions</b>	60 x 52 x 130mm
<b>Light current</b>	108mA@24V
<b>Wavelength</b>	950nm
<b>Modulation</b>	1.33kHz
<b>Relay</b>	1A @ 24Vac SPCO
<b>IP rating</b>	IP66
<b>Angle</b>	-90° to +90°

**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.



**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.

