



# C Prox Ltd (Inc Quantek)

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## CP-PC180B / CP-PC180B-AV

### User Manual

High immunity, battery powered infrared photocells with or without anti-vandal (AV, with metal housing covers). For use as safety beams or presence detection.

The optics can be adjusted through 180 degrees horizontally, and 30 degrees vertically.

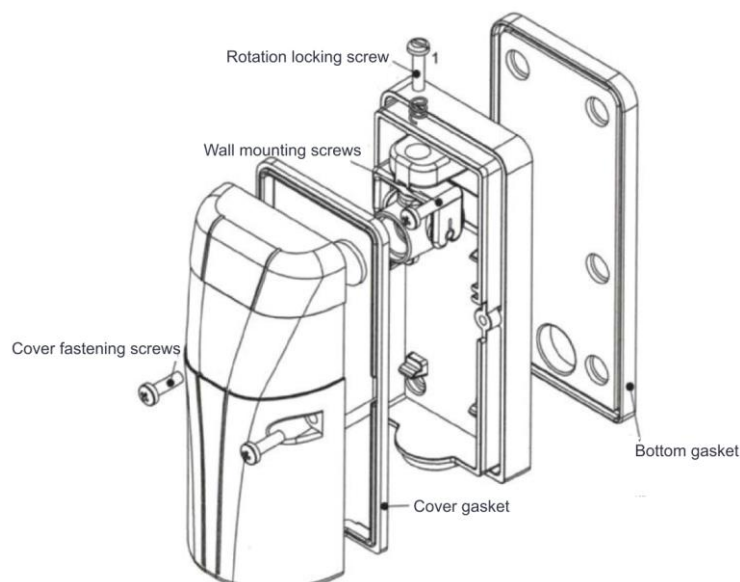
Its housings are equipped with two sealing gaskets and two fastening bolts to allow a high waterproof rating of IP55.

#### Specification:

Power supply TX:	6V. 4 x AAA alkaline batteries
Power supply RX:	12Vdc; 12/24Vac
Battery life TX:	High power approximately 14 months. Low power approximately 24 months.
RX consumption:	25mA at 12Vdc 85mA at 24Vac 28mA at 24Vdc
Wave length:	950 nm
Modulation:	1.33 KHz
Relay current load:	1A @ 24Vac
IP rating:	IP55
Range:	8 & 15 metres
Dimensions:	100 x 45 x 45mm

#### Assembly:

Secure the photocell housings to the wall or columns using 4 screws, approximately 40cm from ground level, and no more than 10cm from the crushing zone. Ensure both rubber gaskets are properly fitted to maintain IP rating.



## Transmitter power:

The transmitter has a jumper for selecting transmission power. Selecting high power, the battery life will be lower. If you are installing in an environment prone to heavy rain or fog, or need a range over 8 metres, it is advisable to use high power mode.

To change the operating mode:

Without the batteries inserted, inserted the jumper and then insert the batteries.

Jumper inserted = high range; Jumper not inserted = low range.

## Connections:

RX Connections	
1	N.O Normally Open Relay Contact
2	N.C Normally Closed Relay Contact
3	C Common Relay Contact
4	Power 12Vdc; 24Vac/dc +
5	Power 12Vdc; 24Vac/dc -

RX				
1	2	3	4	5
○	○	○	○	○
NO	NC	COM	+	-
12/24V				

## Optics adjustment:

The optical section of the photocells can be adjusted horizontally as well as vertically. The optical fastening system is equipped with a ring nut with small teeth that allow fixed adjustments to be made.

Should the optics be too rigid to be moved, loosen screw (1) that is above the optics to loosen the springs tension and allow adjustments to be made.

The LED on the RX signals the correct aligning of the beams. As soon as the adjustment has been correctly made, tighten the locking screw again.

Now secure the covers using the two fastening screws.

