



### 7.3 Mounting

Mark the mounting position of the receiver for a single or double fastener.

For masonry mounting, use a 5mm masonry drill bit.

For mounting to steel tubing, use a 2.3mm steel drill bit.

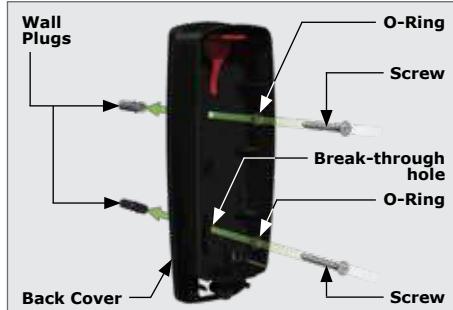


FIGURE 5

Mount the base of the receiver using the supplied hardware. Ensure that the rubber "O" ring is used to seal the **Photon SMART** enclosure against insect ingress. For double mounting screws, knock out the thin plastic film. Double mounting screws are recommended to better locate the **Photon SMART** infrared beams/photocells and prevent them from twisting.

### 7.4 Re-inserting the PCB

Tuck the base of the PCB into the ribs situated at the base of the plastic enclosure. Thereafter swing the PCB into place so that the top lever prevents it from falling out. There should be an audible "click" to lock the PCB in position. Refer to Figure 6.



FIGURE 6

### 7.5 Turning on the Receiver and Transmitter

The transmitter and receiver have been fitted with a 'power up' jumper. In order to preserve battery life, the units have been packed with the jumper in the **OFF** position.

To power them up, simply position the jumper so that it is bridging the **ON** and **COMMON** pins as illustrated.

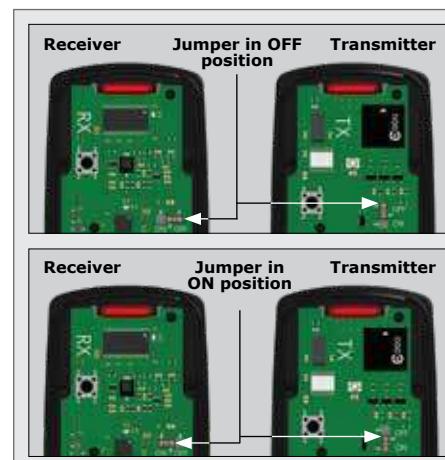


FIGURE 7

### 7.6 Indicators

The **Photon SMART** has an LED which provides the user with visual feedback, and is an alternative to using the Mobile Application thereby making it easy to commission the system.

To enter the Alignment Mode, the button shown in Figure 9 must be pressed for longer than 10 seconds; to indicate that the 10 seconds have expired, the LED will turn off for a short time and then turn on again.

During the alignment process, the LED will now remain on if the Beams are aligned and the LED will turn off if the Beams are misaligned or blocked.

To exit Alignment Mode, the button needs to be pressed for 10 seconds until it turns on and off for a short time.

## 8. Commissioning the System

- Scan the QR Code in Figure 8.
- Select the App Store applicable to the operating system being used, either Apple iStore or Android Google Play Store.
- Download and install the application.

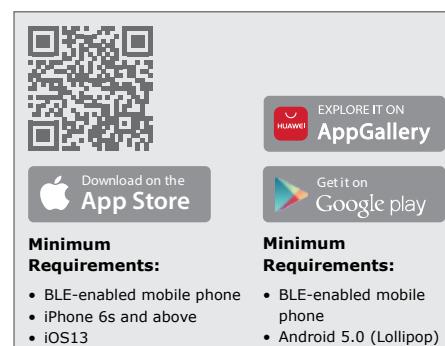


FIGURE 8

Alternatively, go directly to the app store of the operating system being used, and search for the app "**MyCentsys Pro**". Download and install the application onto the smartphone.

- Once installed, open the application.
- From the list of operators, select the operator that is applicable to this installation.
- Connect to the relevant operator.
- Tap the three dots at the bottom of the screen, then enter the settings menu and tap IRBeams.
- Choose whether this setup is for Closing IRBeams or Opening IRBeams. Closing IRBeams, is set to ON by default.
- Tap **Photon SMART** to begin the configuration.
- Tap **ADD NEW**.
- The application will now scan for the **Photon SMART** infrared beams/photocells. It will then ask to press the button located on the top left of the receiver PCB, shown in Figure 9.
- Once it is connected, it will provide the option to give the **Photon SMART** pair a custom name.
- The beam lenses MUST be fitted on the receiver during the alignment procedure as they serve to focus the infrared beam.**  
Failure to do so may result in an inability to achieve alignment. Refer to Figure 11.  
**Do not screw closed until the beams have been aligned.**
- Tap **NEXT**, and the alignment process will begin. The transmitter's position may need to be adjusted until alignment is achieved. A minimum of 10 seconds alignment is needed before being able to proceed.
- Once alignment is achieved, mark the location of the transmitter on the mounting surface.
- To prevent damage, switch off the transmitter.
- Mount the transmitter following steps in Section 7.3, and switch on the transmitter.
- Tap **next**, and **finish**.
- The paired **Photon SMART** infrared beams/photocells will be seen under the **IRB Photon SMART** screen.

## 9. Completing the Installation

### 9.1 Closing

Close the units by placing the front cover onto the base as shown in Figure 10. Do not force the cover, rather place it over as illustrated.



FIGURE 10

Insert and fasten the "shorter" screw provided to close the two enclosures together, followed by inserting the plastic cover provided as shown in Figure 12.

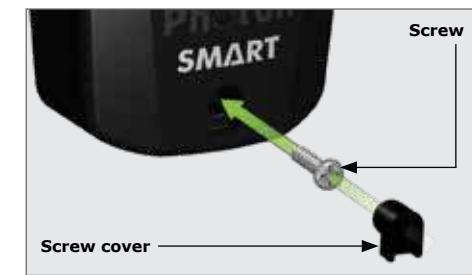


FIGURE 11

The installation is now complete.

### 9.2 Final Testing

To test the operation of the **Photon SMART** infrared beams/photocells, connect to the relevant SMART Controller via the MyCentsys Pro App, block and unlock the **Photon SMART** infrared beams/photocells with an object such as your hand; the relevant IRBeam symbol on the Overview Page will indicate if the **Photon SMART** infrared beams/photocells are obstructed or clear.