

TC-8B People Counter

The kit comprises:

- GL-10 Photo Electric Sensor complete with a Counter module,
- 12-volt plug-pack,
- Reflector and Reflector Bracket,
- Multi-Directional Black Bracket ***
- 2 Reset Magnets,
- Screws and
- Instruction Sheet.

*** **Multi Directional Black Installation Bracket** - the sensor can be positioned to look **SIDEWAYS** in either direction across to the reflector **or** to the **FRONT** of the bracket to the reflector opposite.

Suggested to install the Sensor first and then once sensor lined up with the reflector attach the Counter module to the bracket below the sensor.

The workings of the system are simple. As a preliminary, to see the system in action, plug the unit into a 240-volt power-point using the 12 volt Plug Pack supplied. The Green power LED on the sensor will light up. The Red LED will light up on the TC Counter Module – this Red LED indicates that the sensor cannot see the reflector. Position the reflector 20cm or so in front of the red face of the sensor – the Orange LED will go on when the sensor can see the reflector. The Red LED on the Counter Module will be off.

The system is now ready to count. Each time something goes between the sensor and the reflector the beam will be broken, the Red LED will flash On and the counter will advance one count. Each time the beam is broken there is a brief reset period before the counter is ready to count again. When a person walks past the sensor one count only will register – if the sensor is at leg height the first leg only would be counted, if at waist height arms would not be counted. For general shop installations it is suggested to mount the Sensor and Reflector at a height of **1.25 metres** to miss small children and shopping trolleys.

If people enter and leave by the same doorway the counter will count them as they enter and as they leave so the count needs to be **divided by 2** to determine the correct count.

To reset the counter to zero – hold one of the magnets against the counter box to the right or below of the numbers on the LCD.

The GL-10 Sensor has an operating range of up to **8 metres with the standard 50 X 50 mm Reflector** supplied in the pack. **10 metres using an 80 mm Round Reflector**. If for your installation the sensor needs to sense through glass it is suggested to set the sensor and reflector up temporarily to confirm that the sensor that it will operate effectively. If you are trying to set the unit up sensing through an open glass door it is recommended to have either the door or the sensor on an angle so the sensor is not attempting to go through the glass at a 90° angle.

INSTALLATION INSTRUCTIONS:

STEP 1 The first thing to do is to decide where to position the sensor and its reflector. Moving objects – swinging doors or swaying plants should not interrupt the beam between the GL-10 and its reflector.

STEP 2 Screw the black mounting bracket to the mounting surface and lightly bolt the sensor to **underside** of the bracket using the holes decided on.

STEP 3 Plug the 12-volt plug-pack into the power-point. The Green LED will light up on the back of the GL-10 and the Red LED on the Counter Module will go out when the sensor is lined up - pointing at the reflector. It is best if the reflector is in the centre of the beam from the GL-10, so watching the LED on the GL-10 move the reflector by hand to ascertain where the centre point is. You may need to swivel the GL-10 on its bracket to position both the sensor and reflector where you want them. Mark the position where the reflector is to be fixed.

STEP 4 Once you are satisfied with this lining up; carefully tighten the bolts connecting the GL-10 to its bracket. At this point **check your reflector positioning** to ensure that you haven't moved the sensor as you tightened it.

STEP 5 Affix the reflector to the position you have marked. A bracket is provided which may be of use.

STEP 6 As you walk past the beam the LED flash On while you are in front of the beam. Affix the Counter module below the sensor on the bracket using the double sided tape provided.

STEP 7 By this time there will be a count on the People Counter – clear this by touching the edge of one of the magnets supplied - to the right of the LCD or below the first number to the right. The count will clear to zero. Walk past the GL-10 – and the counter will register one count.