

TC-6 People Counter

- The kit comprises:**
- TC-6 Sensor complete with TC-Counter Module,
 - Matt Black Mounting Bracket for Sensor and Counter Module,
 - 50 x 50 mm Reflector and Reflector Mounting Bracket,
 - 12 volt Switchmode Plug-Pack .5 Amp
 - 2 Reset Magnets - Screws - Fasteners - Instruction Sheet.

Photo Electric Sensor: Finish – Matt Black
Size – 18 x 50 x 50 mm
Light Source – Infrared LED
Operating Range to 6 metres

TC Counter Module: 4 digit LCD
Digit Height 8 mm
Enclosure Size – 23 x 37 x 53 mm
Finish – Matt Black

The Sensor and the TC Counter Module are supplied assembled onto the Mounting Bracket.

The Sensor on its Bracket can be installed on either side of the entrance with the Reflector opposite.

The Mounting Bracket is designed to get the sensor far enough off the wall so the sensor can view the Reflector even if there is a 50 mm thick auto-door between the sensor and its Reflector.

The workings of the system are simple. As a preliminary, to see the system in action, plug the TC-6 Sensor into the TC-Counter Module. Attach the 12 volt Switchmode Plug-Pack and plug it into a 240-volt power-point. The Green LED on the TC-Counter Module will light up. Position the reflector 20cm or so in front of the sensor face – the Green LED will go out when the sensor sees the reflector.

The system is now ready to count. Each time something goes between the sensor and the reflector the beam will be broken, this Green LED will light up - 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 passed 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 of the numbers (to the right of LCD).

INSTALLATION:

Decide where to position the TC-6 and its reflector. Moving objects – swinging doors or swaying plants should not interrupt the beam between the TC-6 and its reflector.

If the installation is at an auto door or aluminum framed door the channels are usually approx 45 mm in width – the bracket suits this width.

Screw the TC-6 Bracket to the mounting surface.

Plug the 12 volt Plug-Pack into the power-point. Position the reflector on the opposite side of the entrance.

It is best if the reflector is in the centre of the beam from the TC-6 sensor - so watching the LED on the sensor move the reflector by hand to ascertain where the centre point is. You may need to loosen and slightly adjust the horizontal direction of the sensor. Affix the reflector bracket to its mounting surface.

Once it is screwed up you should be able to cover at least half of the reflector from any direction before the sensor Orange LED comes on and the unit counts. Make sure all screws and bolts are secure.

By this time there will be a count on the People Counter. Walk past the sensor breaking the beam to the reflector – and the counter will register one count.