

# SOLAR LEVEL DETECTOR

## ECS 9002.00

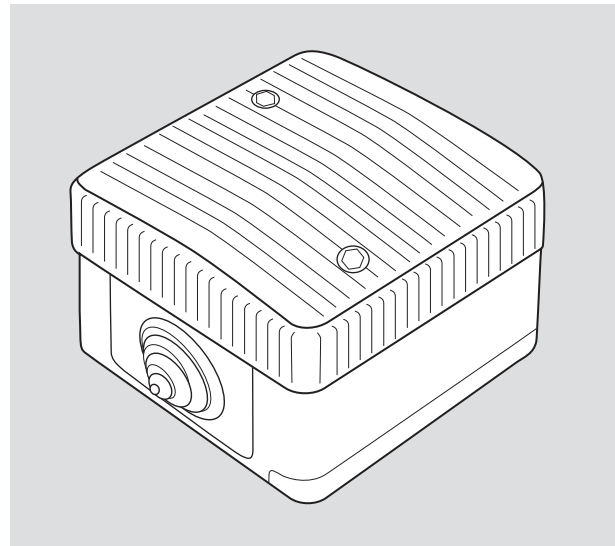
The ECS Solar Level Detector monitors the level of ambient light at its location. More than one Solar Level Detector may be used to monitor daylight in different areas, or sides of a building.

It provides an input to an associated Central or Daylight Reference Controller, which processes the signal from the Solar Level Detector as part of its program to facilitate daylight reference control.

### Location

The Solar Level Detector is suitable for either external or internal mounting, and should be mounted where the ambient light falling on it correlates to the level of natural light entering the building. This is normally achieved by locating the detector close to the glazing.

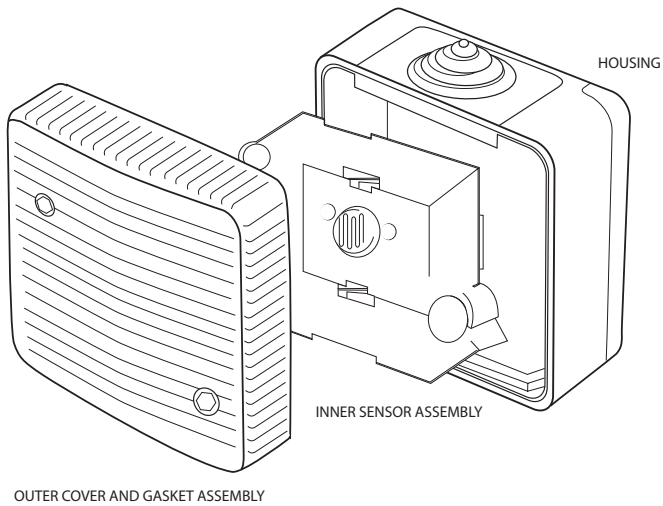
However, if the Solar Level Detector is mounted at a remote location, such as a roof top plant room, care should be taken to avoid interference by either dark shadow or light from external sources that are not consistent with the area under control. This may be from other buildings (especially where a low rise building is surrounded by high rise buildings), or trees, or by light from external sources such as street or flood lights.



If one Solar Detector is to control more than one channel, mount the unit facing the north, and adjust the solar level controls on the Controller to compensate.

A separate, two core, main rated cable, typically 1.5mm<sup>2</sup>, should be used to connect each solar level detector to the Solar Controller. This cable can be run in the same containment system with mains cables.

## Hardware



## Technical Data

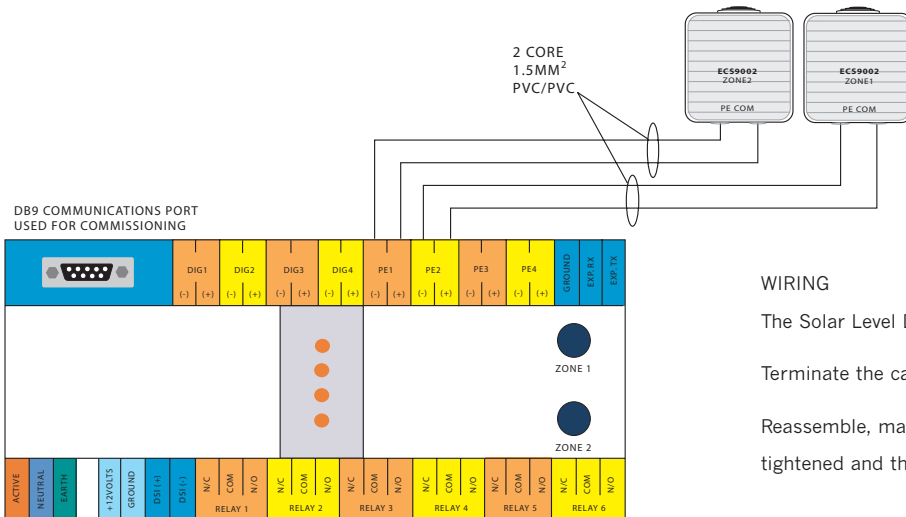
DIMENSIONS	72mm x 72mm x 50mm
IP RATING	55
TEMPERATURE RANGE	0-55 deg C
WEIGHT	82g
COLOUR	GREY
TERMINAL CAPACITY	2.5m <sup>2</sup>

### INSTALLATION

Remove the outer cover by carefully inserting a small screwdriver in the slot provided and prising the cover free. Release the inner cover by loosening and rotating the locking brackets.

Mount the uni using M4 fixing slots in the base.

## Wiring Schematic



### WIRING

The Solar Level Detector is not polarity conscious.

Terminate the cables in Connection 1 & 2

Reassemble, making sure that the locking brackets have been tightened and the waterproof enclosure is intact.

## Ordering Information

Catalogue Number	Description
ECS9002.00	Solar Level Detector (PE Cell)
SC3200B	Multi- Channel Solar Controller
TC3200B	Time Scheduler Controller