

QLS60 Solar Impact Sensor

Product Description

The QLS60 Solar Impact Sensor is used as a reference sensor in heating, ventilation and air conditioning facilities where compensation of solar radiation is required. Solar compensation is necessary where buildings or building sections with large window areas are subjected to strong solar radiation, especially in installations where thermostatic radiator valves cannot be used.

Product Number

QLS60

Required Tools

- Small, flat-blade screwdriver

Expected Installation Time

15 minutes

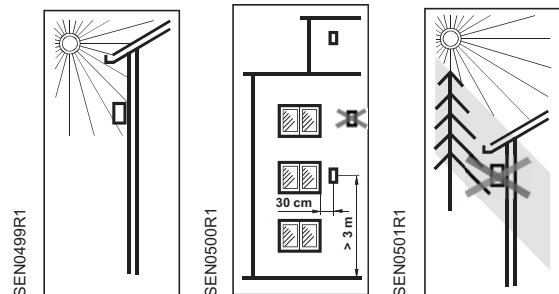
Prerequisites

When deciding on the mounting location, it should first be determined for which part of the building (heating zone) the sensor shall acquire the solar radiation. It must be located on the wall having the windows of the rooms that are affected by solar radiation.

This is, in general:

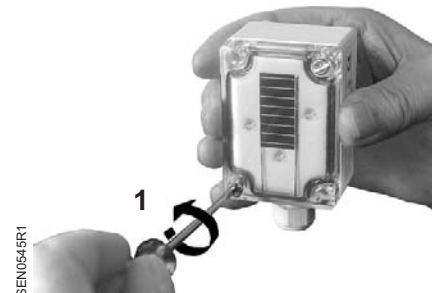
- The wall of the heating zone with the window area which receives the largest part of solar radiation for the longest period of time
- As high as possible, but at least 9.8 feet (3 m) above the ground
- Easily accessible (to facilitate checking), approximately 11.8 inches (30 cm) beside a window.

Installation

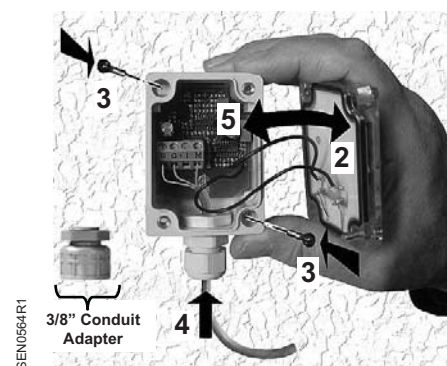


NOTE: Do not mount in the shade of trees, houses, telephone poles, and so on. Do not paint over the sensor.

1. Use a small, flat-blade screwdriver to loosen the two retaining screws, and remove the front of the unit containing the solar cell.



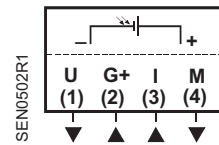
2. Mount the back of the unit to the wall (as shown by the arrows) using two No. 8 mounting screws. (See *Drilling Plan*.)



3. Replace pre-mounted conduit adapter with adapter (provided) to connect to 3/8-inch flexible conduit.
4. Insert wire through the conduit adapter at the bottom of the unit. Terminate wires (see *Wiring Diagrams*).
5. Replace front cover and secure with retaining screws.

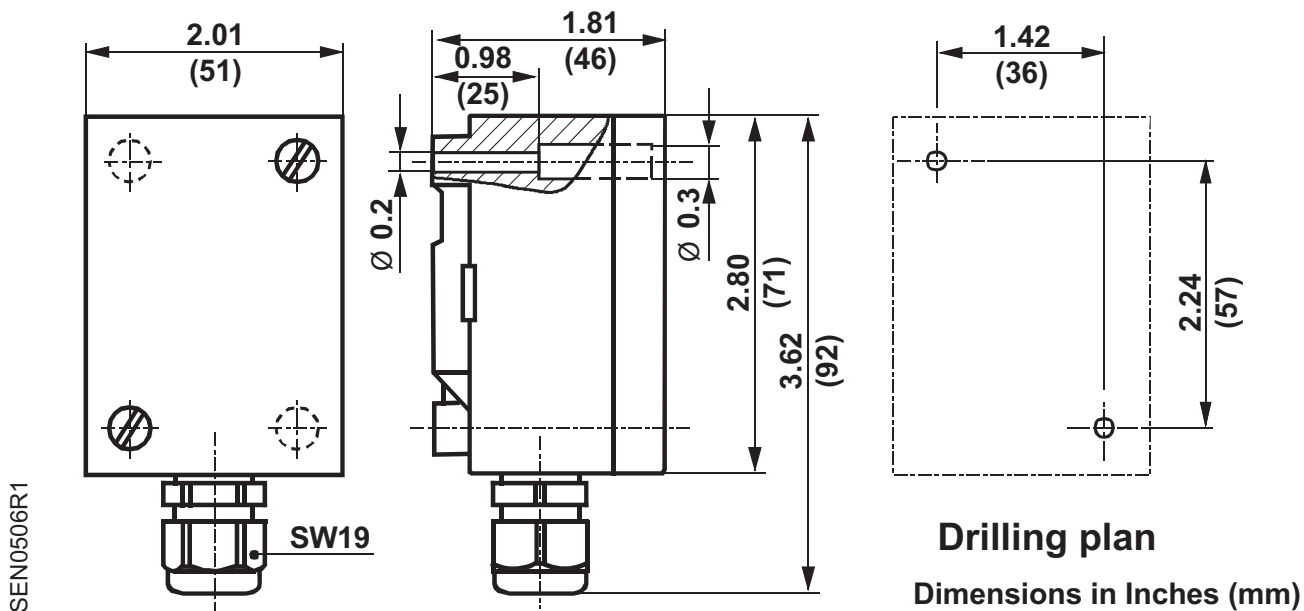
The installation is now complete.

Wiring Diagrams



- U Solar radiation measuring signal
0 to +10 Vdc
- G+ Operating voltage 24 Vac or 24 Vdc
(18 to 30 Vdc)
- I Operating voltage 24 Vdc (18 to 30 Vdc)
- M Measuring neutral (power supply and signal). Solar radiation measuring signal
4 to 20 mA

Dimensions



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