

# Overheight detection sensor Site installation guide

## 1 Position equipment

Position barrier at least 9m from protected asset. Overheight sensor should be placed further up the work lane towards the traffic flow. Distance from the barrier should be considered such as to allow time for barrier to close before works vehicle reaches it. This is dependant on the site speed limit. At 10mph please allow a minimum distance of 31m. *Solar Gates recommends a site speed limit not to exceed 10mph.*

## 2 Set sensor height

Connect the cable to the laser by lining up the connector with the laser screw terminal. It will fit on in one position only. Screw the collar on. Raise the pole until the sensor is at the desired height and orientate at 45 degrees to the traffic flow. Consideration should be made to place the sensor on level ground and allow suitable clearance headroom. Bear in mind a small deviation from vertical will result in a large variation in the height detected by the sensor. *A 5 degree variation from vertical results in a 26cm variation in height measured at 3m from the sensor.*



## 3 Connect the sensor to the barrier

Switch the barrier on and commission it for normal operation (refer to barrier user manual). Once setup is complete, set the barrier in its vertical position. Extend the cable reel to the barrier and connect by lining up the top groove in the plug with the socket and drawing back the sleeve on the socket. This is a waterproof connection and location must be secure.



## 4 Disable safety sensor

In the event of overheight detection it is critical that the barrier closes. The safety sensor on the barrier must therefore be deactivated for this operating mode. This will be achieved by one of two processes dependant on the terminal board fitted. SP-CB01: Move the safety jumper to lower position, bridging middle and lower terminals. SP-CB02: Slide the safety switch to the "Off" position.



## 5 Test functionality

Interrupt the overheight sensor to test the functionality of the setup, then reset the barrier. *The GS6 standard advises daily check and test of the equipment on site. <https://www.hse.gov.uk/pubns/g6.pdf>*



### Summary of recommendations

- Equipment to be used in conjunction with GS6 standard bunting and cones
- Place sensor on level ground
- Distance to barrier relative to site speed limit
- Sensor at 45 degrees to traffic flow