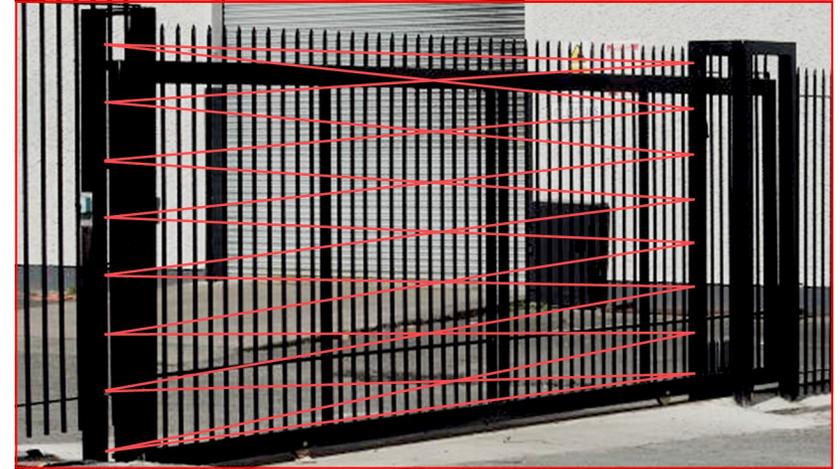


# Sentinel HR Light Curtain



## Instructions

The Sentinel HR light curtains are available in 4 lengths 500 mm, 1000mm, 1500mm, 2000mm. They are suitable for outside use and are IP 55 rated.

### **Mounting the Light curtain**

The light curtain can be mounted by fixing through the aluminium channel onto a post or by using the adjustable mounting brackets. When fixing through the aluminium channel make sure that the channel is fitted with the closed rubber stopper on the top and the one with holes is on the bottom.

### **Electrical Connection**

The system requires a 12vdc regulated power supply to both the receiver and the transmitter. The normally closed contacts of the safety circuit are rated for 24vdc 0.5 amps.

### **Synchronising the beams**

When power is applied to the transmitter LED DL1 is on and when the receiver is aligned correctly LED DL3 is on. If the beam is activated LED DL4 is on. If this is correct no further action is necessary.

**ROTECH**



**Rotech Group Pty Ltd**

[www. Rotech.com.au](http://www.Rotech.com.au)

T: 07 3205 1123

E: [info@rotech.com.au](mailto:info@rotech.com.au)

# Programing

There are 3 modes of operation, in most cases you will not need to alter these settings.

## Mode 1

uses direct beams and activates the safety circuit when 1 beam is broken

## Mode 2

uses direct beams and activates the safety circuit when 2 beams are broken

## Mode 3

uses crossed beams and activates the safety circuit when 2 beams are broken. This mode cannot be used if the distance between beams is less than 5 metres.

The 500 mm and 1000mm light curtains are despatched from the factory set up in mode 1 and the 1500mm and 2000mm are set up in mode 2.

If you need to change these settings short out the pins JP 1 for 5 seconds

**Mode 1** LED DL3 will blink

**Mode 2** LED DL4 will blink

**Mode 3** LED DL3 + DL4 will blink

5 seconds after you have removed the short link the light curtain will return to normal operation.

## Operating Distance

The operating distance is set at 20 metres, only if you need to detect very small objects (10 mm dia) do you need to change the setting when the operating distance is less than 10 metres. If the Light Curtains are close together (<3 metres) set the jumper on the Transmitter to LOW. This reduces the light output and reduces the chance of reflected light. (It may also be necessary to remove the lens from the transmitter optics.)

