

# WHELEN<sup>®</sup>

ENGINEERING COMPANY INC.

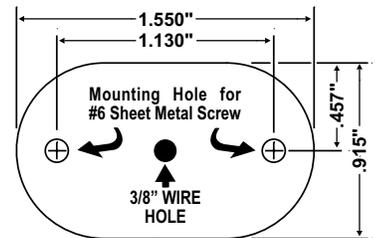
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## Installation Guide: CanTrol™ Light Sensor

**WARNING!** Permanent mounting of this product will require drilling. It is absolutely necessary to make sure that no other vehicle components could be damaged by this process. Check both sides of the mounting surface before starting. If damage is likely, select a different mounting location.

### Mounting and connections...

- Place the flange onto the mounting surface and mark the location for the two mounting screws and the wire access hole location as shown.
- Drill two pilot holes for the two #6 X 3/8" sheet metal mounting screws and a 3/8" wire access hole. Be sure to thoroughly deburr this hole.
- Route the wires through the gasket and the wire access hole and secure the lighthouse with the supplied mounting screws. NOTE: Make sure the Whelen logo on the lens is oriented correctly after mounting.
- Connect the sensor wires as follows:
  - RED** - Connect to an ignition controlled +12.8VDC power source
  - BLACK** - Connect to Chassis Ground
  - WHT/RED** - Connect to the first available Analog Input on CanTrol™ (for example: Analog 1)

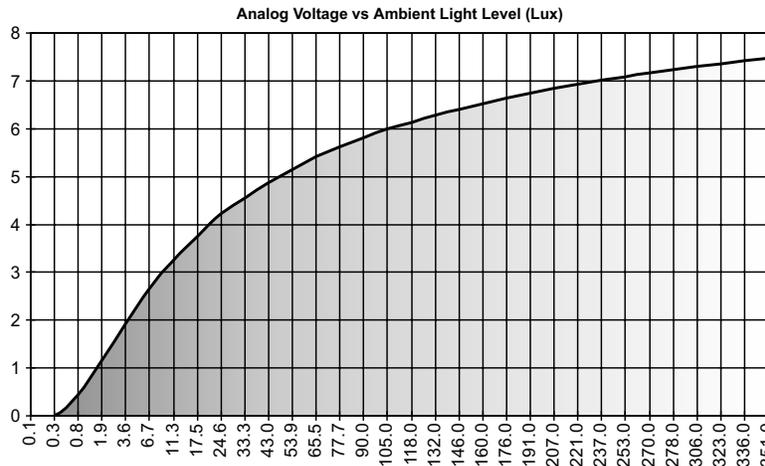


In order to operate correctly, the appropriate analog input must be properly configured using the CanTrol™ programming software. The following values are presented as a starting point. Individual applications may require different values than those shown here.

- Update** = Select the maximum value (200 ms.)
- Average** = Select the maximum value (10)
- Upper Trip Point** = Select a starting value of 6.1V (see graph for details)
- Lower Trip Point** = Select a starting value of 5.9V (see graph for details)

**IMPORTANT!** Before returning this vehicle to active service, confirm proper operation of this product, as well as all vehicle components/equipment.

Lux	Voltage Out
0.3	0.0
0.8	0.4
1.9	1.1
3.6	1.9
6.7	2.6
11.3	3.2
17.5	3.7
24.6	4.2
33.3	4.5
43.0	4.9
53.9	5.2
65.5	5.4
77.7	5.6
90.0	5.8
105.0	6.0
118.0	6.1
132.0	6.3
146.0	6.4
160.0	6.5
176.0	6.6
191.0	6.7
207.0	6.8
221.0	6.9
237.0	7.0
270.0	7.1
278.0	7.2
306.0	7.3
336.0	7.4
351.0	7.5



**For warranty information regarding this product, visit [www.whelen.com/warranty](http://www.whelen.com/warranty)**

**Automotive: CanTrol™**