



High Brightness Laser Docking Systems Installation Guide

How it works:

A 90° divergent fan beam of laser light can be seen over 100 feet when looking at the incident light reflected off of a smooth surface. Water, mud, snow and low light conditions help the truck drivers to “see” the laser lines on either side of his tractor and trailer. This helps the driver center the trailer to the loading dock when backing down. The GLX60AC - 500mW or GLX60AC-1W laser modules are installed inside of the HB59 Steel Enclosure during manufacturing.

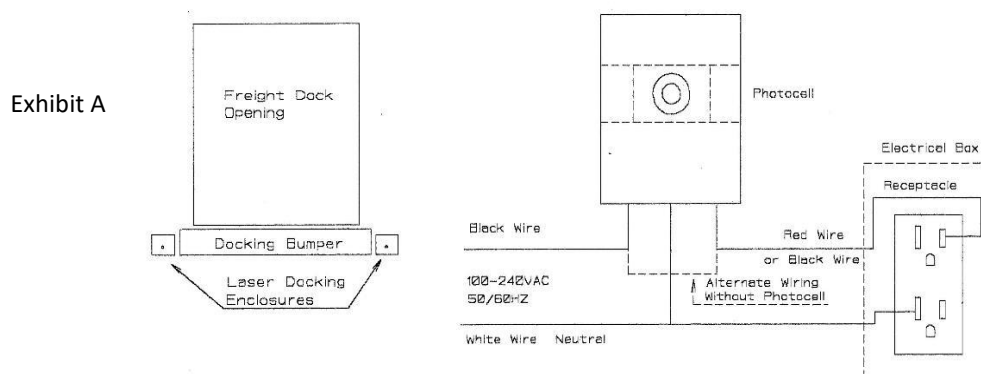
How to Install:

The HB59 can be mounted on either side of the dock bumper as long as the GLX60AC -500mW or GLX60AC-1W laser fan beams are directed to shine through the clear acrylic window to produce a green laser line on the ramp that is visible in the driver’s wing mirrors. Use standard mounting anchors and bolts for install (not included).

When using the recommended two HB59s for each side of the dock bumper, mount each so the laser lines shine 10’ apart and parallel down the ramp (Exhibit A below).

To Adjust Tilt of Laser Fan Beam on Ramp:

Loosen the knurled thumb screw on the laser module mounting bracket in order to adjust the laser to a 30° down angle on the laser fan beam relative to the straight ramp. The reflected laser light (specular reflection) should be visible in the driver’s wing mirrors. To aid in laser beam alignment, green reflective film can be used as a target when placed in line with the laser line at 100’. Order GT680-15” x 12” reflective film.



Wiring the HB59:

Wire the AC power through the optional photocell if included or directly to the electrical box using the attached wiring diagram. The laser is plugged into the electrical receptacle. The metal window clip on the photocell can be slid up or down over the photocell’s window to change the sensitivity and the turn on or turn off time for the power to the receptacle and the laser. Note: The internal electrical box is attached with magnets to the steel enclosure so the box can be moved within the steel enclosure. This aids in conduit fitting and wire pulling during installation.

For 12VDC or 24VDC @ 1.5A operation, connect the DC power to the terminal strip lugs inside the HB59 Steel Enclosure marked for either 12VDC or 24VDC. See attached photo.

AC or DC power can be switched manually or automatically on and off for laser control from a remote AC power switch or Dock Locking or Leveling control system.

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