

LaserGuard2 Systems Retrofit

Addendum to:

- LaserGuard2 Collision Avoidance System Instruction Manual (147-20004)

Parts of an older LaserGuard system and a new LaserGuard2 system can be used together and function properly, but it may require slight adjustments to the wiring or trip point set-up.

If an old Laser Support Unit is used with a new LaserGuard2 laser head, adjustment from the existing cable to the control board would be required, as the laser pin out has changed. See the table below on how to wire with the old system versus the new system. The potentiometer may require fine-tuning as well.

If an old laser head is used with a new LaserGuard2 Laser Support Unit (LSU), wiring would also have to be wired using the table below. The LASER SELECT switch S4 on the control board of the LSU must be moved from the default position of "ON" to "OFF". This will prevent nuisance Overcurrent faults when moving the crane to distances approaching 150 feet.

Laser Connector pin number	LaserGuard Designation	LaserGuard Wire	LaserGuard Board Termination	LaserGuard2 Designation	LaserGuard2 Wire	LaserGuard2 Board Termination
1	12V to laser	Twisted Pair "TWO" Red	#3, +12V	12V to laser	Brown	#3, +12V
2	0V	Twisted Pair "TWO" Black	#4, OUT	4-20mA signal	White	#1, SIGNAL
3	4-20mA signal	Twisted Pair "ONE" Red	#1, SIG.	0V	Blue	#2, GND
4	0V	Twisted Pair "ONE" Black	#2, COMM.	Not Connected	Black	Not Connected
DRAIN WIRE	0V	No insulation	#2, COMM.	0V	Not available on all models	#2, GND

