Laser Safety Systems

Your Engineered Laser Safety Solution

Purpose: Provides the means to arm and disarm and lock out the room interlock with a high security key.

- Allows for system expansion with additional modules provided by Laser Safety Systems.

- Accepts input of system 24VDC power.

- Provides two Form C dry relay contacts to interlock a clients laser or shutter controller.

- Displays the room interlock status.

- 2 Class 3 high-security "sidewinder" keys provided. Laser Safety Systems tracks key assignments so clients will receive uniquely keyed modules for clients with multiple labs, unless a common key is requested.

- Up to 5000 unique combinations are possible with this key and tumbler type.

Front view

Rear view

Dimensions of main control module (D): Width 4.5 inches Height 4.5 inches Depth in box 1.1 inches

Packaged weight: 215 grams

Typical installation location: Mounted at a location most convenient to client. To meet ADA compliance, the module is normally placed at 48" above finished floor.

Typical mounting: The module is mounted in a surface mount 2-gang outlet box to permit entry of the wiring for power supply and the wiring for laser or shutter being interlocked.   In-wall mounting is not appropriate for this module.

Typical connection schematic: Refer to system manual

Technical Data

Electrical

Voltage	24VDC
Current consumed	8mA disarmed, 35mA armed
Interlock relay dry contact rating	8 Amps/250VAC
Endurance	20,000 cycles minimum

Mechanical

Terminal Accommodations	#22 AWG – #16 AWG
Environmental	Indoor usage
Flammability	UL94 V0
Operating Temperature	Maximum continuous +50°C, minimum -15°C

Materials

Back Body	FR4 PCB
Front Body	Stainless Steel
Label	Printed Polycarbonate F150
Label Adhesive	3M type 467
Terminal Screws	Steel, galvanized with Cr3+ plating
Terminal Contacts	Nickel-Plated copper alloy
Rear body plastics:	Polyamide (UL94V-0)
Relay materials	Polyamide, Copper, Nylon, Steel
Solder (thru hole)	Lead Free K100LD (Kester)
Solder (paste)	Lead Free Sn42/Bi57.6/Ag0.4
Screws	Stainless Steel
Spacers	Nylon or aluminum
Nuts	Zinc-Plated steel with nylon insert
Key Switch & Key	Bright nickel-plated zinc alloy die cast cylinder and nickel plated brass key with Nylon housing

3rd Party Compliance

LSS-2382 is exempted from inspection under UL 508A section 43.2.1 due to its low-voltage power-limited status.

Modules meets UL94V-0 Flammability standard.

Modules are part of an overall system certified to fulfill the electrical interlock requirements of ANSI Z136.1-2014 for the safe use of lasers and Article 330 of NFPA 70E

Warranty

3 Year

Part number for Ordering

LSS-2382 or LSS2382

Additional information

LSS2382 specific operation, testing , and connection information is located in the system user manual located at :
https://www.lasersafetysystems.com/Laser_Safety_Systems_user_manual.pdf