

# Laser Safety Systems



**Your Engineered Laser  
Safety Solution**

**Purpose:** Module monitors a door or curtain to verify closure. If monitor detects door has opened, the laser interlock trips to the safe state.



Front



Rear



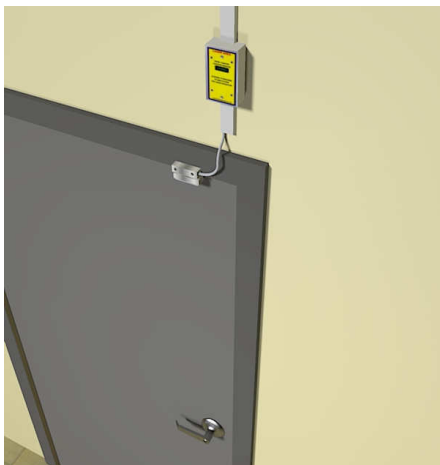
Side

**Dimensions:** Width 2.8 inches Height 4.53 inches Depth in box 1.1 inches

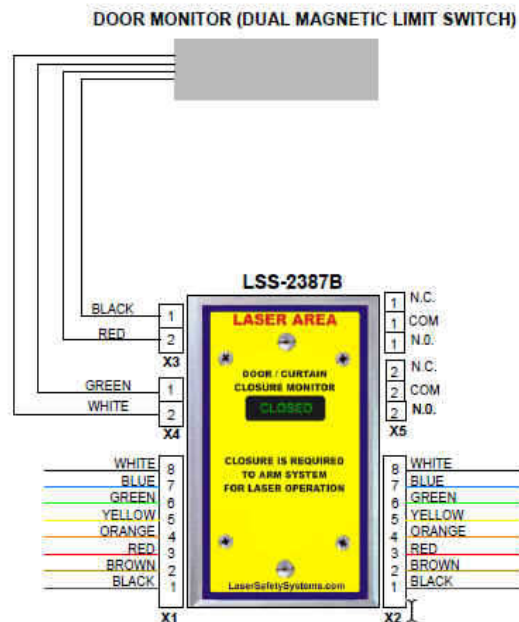
**Packaged weight:** 115 grams

**Typical installation location:** Above entryway door opposite the door hinge. On double doors, it is centered above the split of the doors. It is always mounted on the interior side of the door. Can also be used on curtain installations.

**Typical mounting:** This module is mounted in a surface mount single-gang outlet box to permit entry of the door sensor wiring armored cable. In-wall mounting is not appropriate for this module unless installer is placing a limit switch inside the door frame.



**Typical connection schematic:**



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**Technical Data**


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**Electrical**

Voltage	24VDC
Current consumed	30mA (60mA if LSS2387B)

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LSS2387B

Auxilliary relay current Max	8 A
Endurance	20,000 cycles minimum

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**Mechanical**

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

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**Materials**

Back Body	FR4 PCB
Front Body	Powder coated 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

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### 3rd Party Compliance

LSS-2387 is exempted from inspection under UL 508A section 43.2.1 due to its low-voltage power-limited status.

Module meets UL94V-0 Flammability standard.

Module is 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-2387 or LSS2387

LSS-2387B or LSS2387B when ordered with optional user relay

Note: This part number will come with one LSS2306-12 door sensor. When double doors are used, a second sensor is to be ordered separately.



### Additional information

LSS2387 specific operation, testing, and connection information is located on page 8 of the overall system user manual located at : [https://www.lasersafetysystems.com/Laser\\_Safety\\_Systems\\_user\\_manual.pdf](https://www.lasersafetysystems.com/Laser_Safety_Systems_user_manual.pdf)

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