



Gunshot Detection

S1 Single Sensor
Quick Start Guide
Rev 1.0

Simple. Scalable. Secure.

Contents

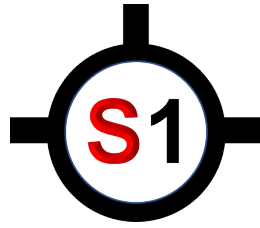
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1 Introduction

Gunshot Detection from 3xLOGIC is a sensor that detects the shockwave / concussive signature of any gun caliber. It detects up to 75 feet in all unobstructed directions or 150 feet in diameter. The smaller directional sensor that detects the strongest signal determines the source of the gunshot.

The sensor is a stand-alone product that can send gunshot detection information using its on-board processors to a variety of host systems including alarm panels, central stations, video management systems, access control systems and other critical notification systems. No other equipment is necessary for the sensor to identify a gunshot. It is a self-contained device that can complement any security system. 3xLOGIC Gunshot Detection can be used as a single device or is scalable in design and deployments can include an unlimited number of sensors.

Note: Gunshot Detection must be installed and configured by 3xLOGIC authorized technicians only.



2 Hardware

The Gunshot Detection S1 Single Sensor units have two variations.

2.1 Available Units

1. Weather Resistant Aluminum Indoor/Outdoor model in Gray
2. ABS Fade Resistant Plastic Indoor Model in White

2.2 Box Contents

- S1 Unit
- Corner Mount Bracket
- Antenna (Aluminum Unit Only)

This antenna must be installed on the top of the unit.

3 Connection

Connect the S1 Unit to *Power* and the *Alarm Panel*.

The power cable and relay contacts are connected to the 8 Pin Quick Connector on the board in the back of the unit pictured below.



Warning: Please insure correct polarity.

A voltage range from 12v – 14v DC is acceptable. Connect the Alarm Relay to the Alarm Panel utilizing the NC or NO and C connection denoted on the board.



Note: The installation wiring should have a **Gauge** of AWG 22 to 20.

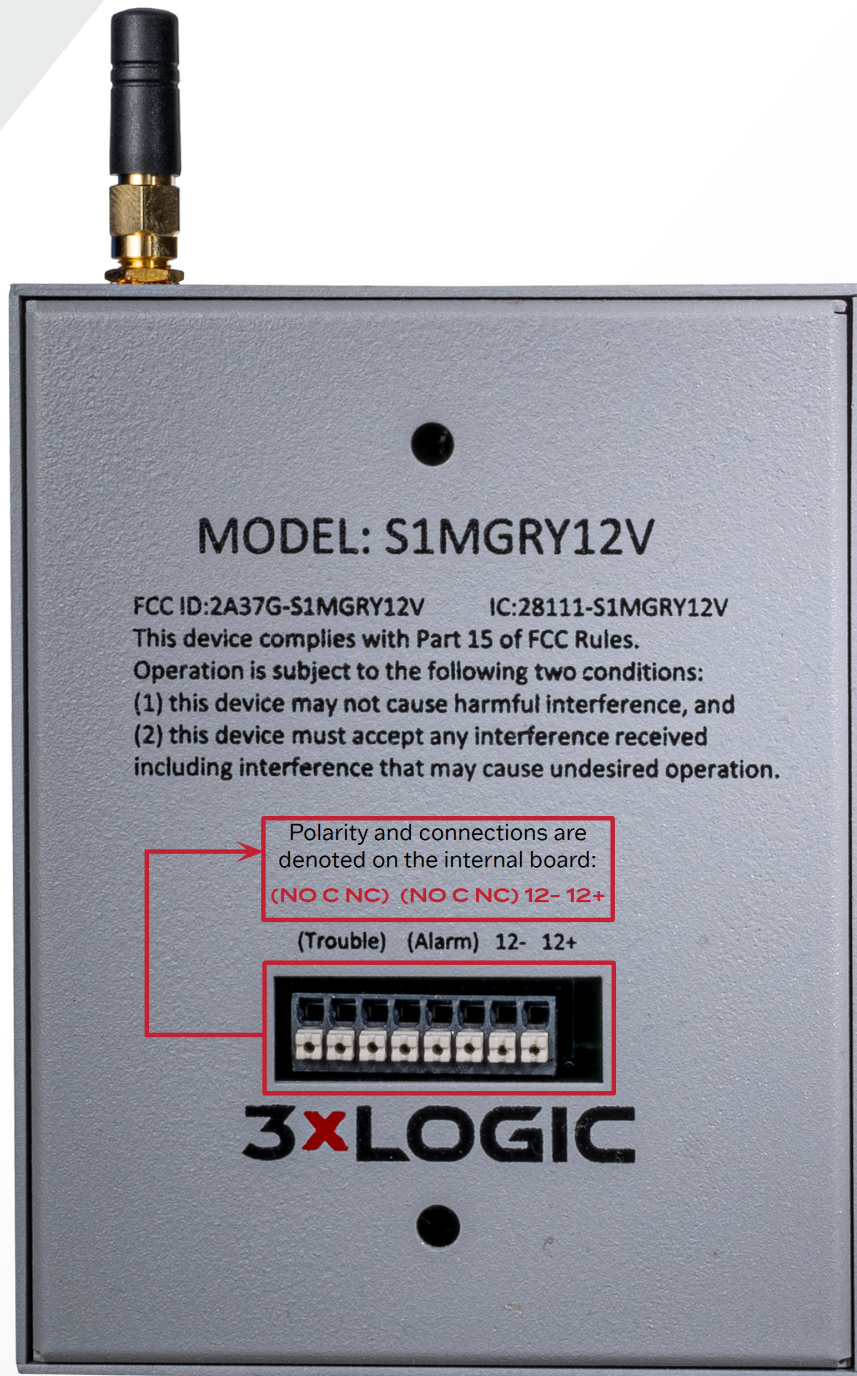


Figure 1-1: S1 Aluminum Indoor/Outdoor Unit

As annotated above, polarity and connections are denoted on the internal board, with a configuration of: (NO C NC) (NO C NC) 12- 12+

Optional: Connect the Trouble Relay to supervise the power of the unit by connecting to the Trouble NC or NO and C connection denoted on the board.

4 Mounting

The unit can be mounted to the wall or ceiling.

4.1 Ceiling Mount

When mounting to ceiling, utilize the two holes on the back of the unit and secure to a standard single-gang electrical box.

4.2 Wall Mount

When mounting to the wall, it is recommended using the corner mounting bracket provided in the box. However, the unit may be installed on a flat wall with the understanding the sensor has a 160° detection area.

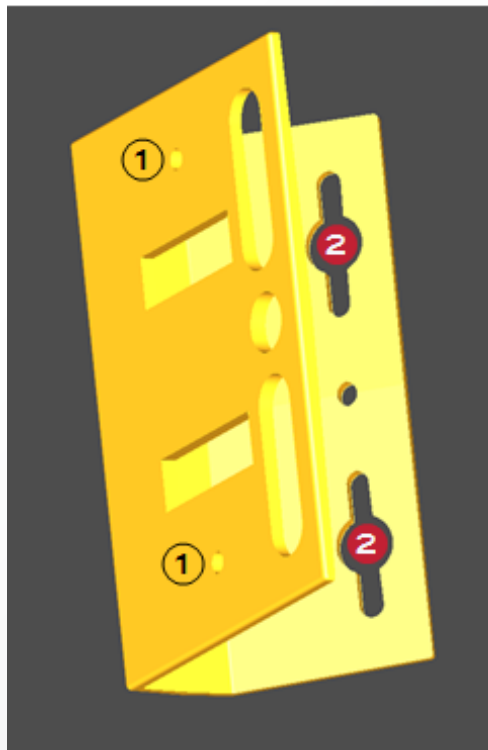


Figure 1-2: Corner Mount Bracket

1. Install the unit onto the mounting bracket before placing bracket on the wall.
2. Install two mounting screws in the wall. Leave .25 inches of screw shaft to slide the mounting bracket onto.

5 Testing

The S1 can be put into test mode 2 ways:

- Utilizing a magnet placed under the sensor hole on the front of the unit.
- Utilizing the TSTU device (Part # STU01, sold separately).

5.1 Initiate Test

Test Mode is indicated by the blue light blinking 3 times then blinking every .5 seconds. At this time an air horn can be used to test the unit. When the unit detects the air horn, the blue light will stay on for 5 seconds.

5.2 Reset

To turn off test mode, place magnet below the sensor hole again. Standard operation mode will be indicated by the blue light blinking 3 times then a green light *only after* the unit resets.

6 Reference Information

6.1 Catalog

These components are available from 3xLOGIC.

PART #	DESCRIPTION
SentCMBW	Gunshot Detection with Ceiling Mount (White)
SentCMBB	Gunshot Detection with Ceiling Mount (Black)
SentCMBWPOE	PoE Unit with Ceiling Mount (White)
SentCMBBPOE	PoE Unit with Ceiling Mount (Black)
WM01W	Wall Mount (White)
WM01B	Wall Mount (Black)
CM04	Flush Ceiling Mount
STU01	Touch Screen Testing Unit (TSTU)
SP01	Screen Puller Tool to Safely Remove Screens
TP5P01	Telescoping Testing Pole (quantity 5 pieces)
SRMP01	Transducer Screen Replacement Master Pack (100 pieces)
UCB01	Gunshot 8 Sensor Protective Cage (Black)
UCW02	Gunshot 8 Sensor Protective Cage (White)
UCG03	Gunshot 8 Sensor Protective Cage (Grey)
PCB01	Gunshot 8 Sensor Protective Cover (Black)
PCW02	Gunshot 8 Sensor Protective Cover (White)
PCG03	Gunshot 8 Sensor Protective Cover (Grey)

6.2 Company Details

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