SIEMENS

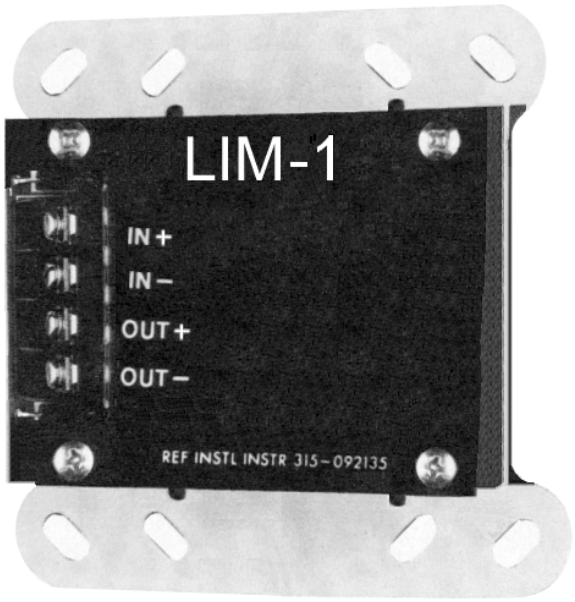
Data Sheet
Fire Safety & Security Products

MXL / MXLV

Line Isolator Module
Model LIM-1

ARCHITECT AND ENGINEER SPECIFICATIONS

- Used on MXL intelligent-device circuits
- Up to 12 of Model LIM-1 per ALD circuit
- Short-circuit isolation
- Increased fault tolerance
- Style 4 or Style 6 wiring
- Requires no programming
- Does not occupy a device address
- Local light-emitting diode (LED) indicator
- Mounts in a 4–11/16"-square, or double-gang electrical box
- Cover plate included
- ®UL 864 9th Edition Listed and ®ULC Listed; FM, CSFM & NYMEA Approved



Product Overview

The Line Isolator Module (Model LIM-1) provides short-circuit protection on MXL intelligent device circuits (ALD). When a short circuit is detected, Model LIM-1 isolates the affected segment on the circuit, allowing the remaining devices to continue operation.

Model LIM-1 is self-restoring, automatically reconnecting to circuit segment when the fault is removed, and includes a yellow LED, which illuminates to indicate the device has been activated. Model LIM-1 mounts in either a 4–11/16"-square, 3–1/2"-deep or double-gang electrical box, and is supplied with a cover plate with a circular opening for the LED.

Model LIM-1 can be wired in either a Style 4 or Style 6 configuration. Model LIM-1 does not occupy a device address on the ALD circuit, and does not require any programming.

Specifications

Up to 12 Model LIM-1 modules may be installed on each ALD circuit.

Short-circuit isolation shall be provided for all intelligent-device circuits. The isolator shall mount in a 4–11/16"-square, or double-gang electrical box, and shall include a yellow LED to indicate activation. The isolator shall also include a cover plate with an opening for the LED.

The isolator, Model LIM-1, shall be a self-restoring device that shall neither require programming, nor occupy an address on the intelligent-device circuit. The isolator shall be capable of being configured in either Style 4 or Style 6 wiring.

Electrical Ratings

Input Power:	24VDC @ 500µA, max.
Maximum Line Resistance [between each Model LIM-1 Module:]	20 ohms

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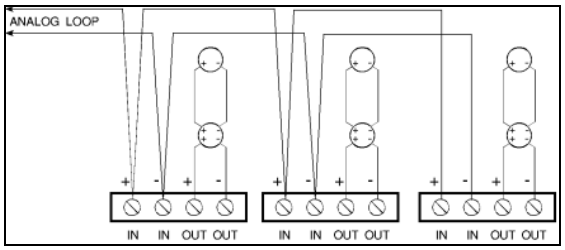
Temperature and Humidity Range

Model LIM-1 is ®UL 864 9th Edition Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative-humidity range of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).

Wiring Diagram

— Class B Installation, Model LIM-1 —

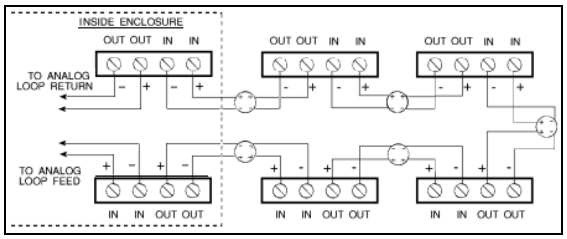


1. **All wiring must comply with local and national electrical codes.**
2. Do not install more than 20 devices on a single Model LIM-1 module.
3. Minimum wire gauge is 18 AWG.
4. The total wire resistance (both wires) between each Model LIM-1 cannot exceed 20 ohms.
5. Do not install more than 12 Model LIM-1 modules per ALD loop.
6. All circuits supervised.

Note: Refer to the MXL / MXLV manual {p/n: 315-092036} for the full list of compatible devices.

Wiring Diagram

— Class A, Single-Loop Installation, Model LIM-1 —



1. **All wiring must comply with local and national electrical codes.**
2. Do not install more than 20 devices between any two (2) Model LIM-1 modules.
3. Minimum wire gauge is 18 AWG.
4. The total wire resistance (both wires) between each Model LIM-1 cannot exceed 20 ohms.
5. Do not install more than 12 Model LIM-1 modules per ALD loop.
6. All circuits supervised.

Note: Refer to the MXL / MXLV manual {p/n: 315-092036} for the full list of compatible devices.

Installation and Operation Manuals

[IOM]

Model Number	Part Number	Description
LIM-1	315-092135	Short-Circuit Line Isolator Module (ALD)

Note: For further details, refer to MXL IOM manual: 315-092036.

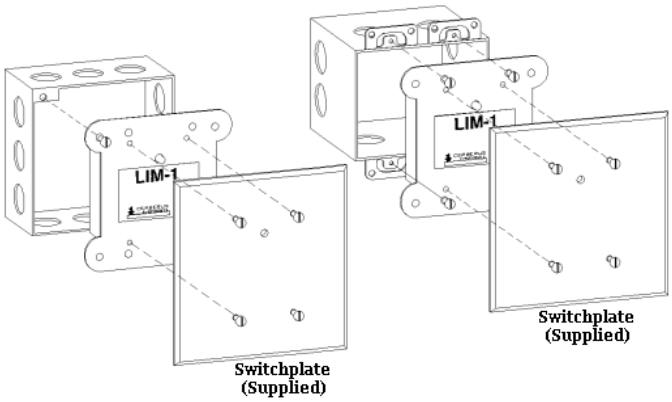
Related Documentation

Product	Data Sheet Number
MXL	5000
ALD-2I	5036

Details for Ordering

Model Number	Part Number	Description
LIM-1	500-892361	Short-Circuit Line Isolator Module (ALD)

Mounting Diagrams



Mechanical Installation

1. Use a standard 3.5-inch deep, double-gang electrical switchbox, or a 4–11/16"-square electrical box that is 2–1/8" deep.
2. Connect the field wiring. Press Model LIM-1 into the box and fasten the module plate to the box.
3. Cover the module front plate with the plate supplied and fasten the plate with the supplied screws.

Notice: This marketing data sheet is not intended to be used for system design or installation purposes. For the most up-to-date information, refer to each product's installation instructions.

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