LSN 1500 A LSN improved Module 1500 mA

This module allows the connection of an LSN loop with up to 254 LSN improved elements with a maximum line current of 1500 mA or with up to 127 classic LSN elements, with a maximum line current of 300 mA.

- Up to 254 LSN improved elements
- Line length up to 3000 m, depending on configuration and cable type
- Unshielded cable can be used
- Line current up to 1500 mA, depending on configuration and cable type
- Additional voltage output (ERT-capable)
- Flexible network structures (loop, stub, and T-tap)
- Addressing techniques: LSN improved auto-addressing, LSN classic auto-addressing and manual address assignment

### System Overview

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSN</td>
<td>LSN stub</td>
<td>AUX1 + / -</td>
</tr>
<tr>
<td>loop</td>
<td></td>
<td>Auxiliary power supply 1</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>AUX1 stub 1</td>
</tr>
<tr>
<td>LSN a1-</td>
<td>LSN a1- outgoing</td>
<td>Stub 1 LSN a1-</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>LSN b1+ outgoing</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Stub 1 LSN b1+</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/6</td>
<td>AUX2 + / -</td>
<td>Auxiliary power supply stub 2</td>
</tr>
<tr>
<td>7</td>
<td>LSN a2-</td>
<td>LSN a2- incoming Stub 2 LSN a1-</td>
</tr>
<tr>
<td>8</td>
<td>LSN b2+</td>
<td>LSN b2+ incoming Stub 2 LSN b1+</td>
</tr>
</tbody>
</table>

*** Auxiliary power must only be returned to AUX2 in looped isolators (ERT systems). [Suitable isolators include YBO-R/SCI isolators]

### Installation/Configuration Notes

**System limits for each LSN 1500 A LSN improved Module**

**Note**

*Current consumption of the connected devices and cable length can be calculated with the Fire System Designer (FSD).*

- Country-specific standards and guidelines must be considered during planning.
- It can only be plugged in on the left side of a PRD 0004 A panel rail and requires two slots!
- For operation of the fire detection system according to EN 54-13, it is necessary to terminate every stub and T-tap with EOL-modules.

### Parts Included

**Qty.** | **Components** | **Note**
---|---|---
1 | LSN 1500 A LSN improved Module 1500 mA | Ready for delivery on request.

### Technical Specifications

#### Electrical systems

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>20 V DC to 30 V DC / 5 V DC ± 5 %</td>
</tr>
<tr>
<td>Output voltage:</td>
<td></td>
</tr>
<tr>
<td>• LSN</td>
<td>30 ± 0.85 V DC</td>
</tr>
<tr>
<td>• Aux auxiliary power</td>
<td>28 ± 1.0 V DC</td>
</tr>
<tr>
<td>Max. current consumption</td>
<td>4010 mA at 24 V DC</td>
</tr>
<tr>
<td>Nominal current consumption:</td>
<td></td>
</tr>
<tr>
<td>• Module</td>
<td>260 mA at 24 V DC</td>
</tr>
<tr>
<td>• LSN</td>
<td>1.7 x current consumption of LSN elements</td>
</tr>
<tr>
<td>• AUX</td>
<td>1.2 x Auxiliary power</td>
</tr>
</tbody>
</table>

#### LSN line current:

- **Standby**: Max. 750 mA, depending on configuration and cable type
- **Alarm**: Max. 1500 mA, depending on configuration and cable type, Max. 300 mA at connection of classic LSN elements
- **AUX auxiliary power (28 V DC)**: Max. 500 mA in an LSN loop (ERT system) or 2 x max. 500 mA in 2 stubs

#### Mechanical systems

- **Operation/display elements**: 2 LEDs (red = alarm, yellow = fault) 1 button (LED test)
- **Housing material**: ABS plastic, (UL94 V-0)
- **Housing color**: Satin finish, anthracite, RAL 7016
- **Dimensions**: Approx. 127 x 190 x 60 mm (5.0 x 7.6 x 2.4 in.)
- **Weight**: Approx. 440 g

#### System limits

- **Max. line length**: 3000 m, depending on configuration and cable type
- **Number of elements**: Max. 127 classic LSN elements Max. 254 LSN improved elements

#### Environmental conditions

- **Permissible operating temperature**: -5 °C to 50 °C (23 °F to 122 °F)
- **Permitted storage temperature**: -20 °C to 60 °C (-4 °F to 140 °F)
- **Permitted relative humidity**: 95 %, non-condensing
- **Protection class as per IEC 60529**: IP 30

### Ordering Information

**LSN 1500 A LSN improved Module 1500 mA**

For connecting an LSN loop with up to 254 LSN improved elements with a maximum line current of 1500 mA, or with up to 127 classic LSN elements, with a maximum line current of 300 mA

**FSM-420-EOL2W-W EOL Module LSN**

For EN 54-13 compliant termination of LSN stubs or T-taps

**FLM-420-EOL2W-W**

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