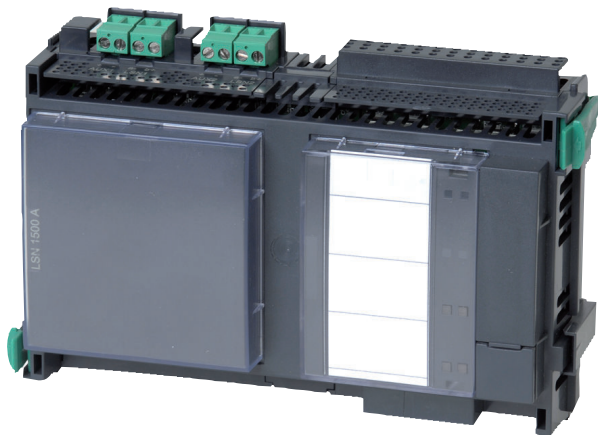




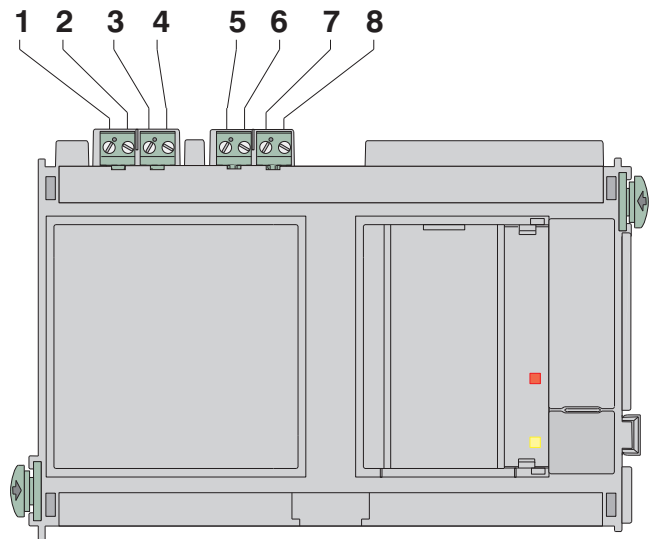
# LSN 1500 A LSN improved Module 1500 mA



- ▶ 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

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.

## System Overview



Ite	Description	Connection	
m			
LSN	LSN stub		
loo			
P			
1/	AUX1 + / -	Auxiliary power supply	Auxiliary power supply stub
2			1
3	LSN a1-	LSN a1- outgoing	Stub 1 LSN a1-
4	LSN b1+	LSN b1+ outgoing	Stub 1 LSN b1+

Item	Description	Connection	
5/6	AUX2 +/-	Auxiliary power supply***	Auxiliary power supply stub 2
7	LSN a2-	LSN a2- incoming	Stub 2 LSN a1-
8	LSN b2+	LSN b2+ incoming	Stub 2 LSN b1+

\*\*\* 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
1	LSN 1500 A LSN improved Module 1500 mA

**Note** Ready for delivery on request.

### Technical Specifications

#### Electrical systems

Input voltage	20 V DC to 30 V DC / 5 V DC ± 5 %
Output voltage:	
• LSN	30 ± 0.85 V DC
• Aux auxiliary power	28 ± 1.0 V DC
Max. current consumption	4010 mA at 24 V DC
Nominal current consumption	
• Module	260 mA at 24 V DC
• LSN	1.7 x current consumption of LSN elements
• AUX	1.2 x Auxiliary power

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

#### Accessories

**FLM-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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