

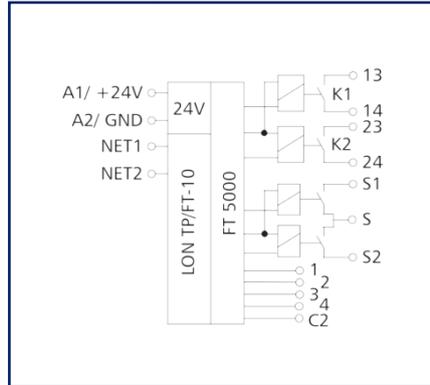
# Data sheet

## LF-DM4/4 LON

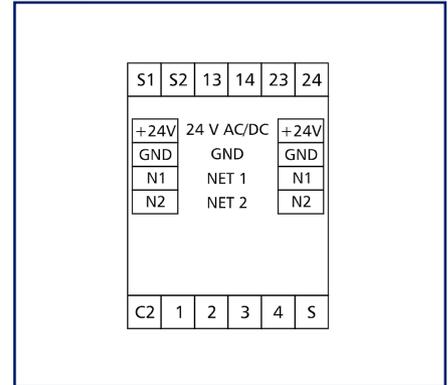
### Illustrations



Principle diagram



Wiring diagram



See enlarged drawings at the end of document

### Product specification

The LON I/O module with 4 digital inputs, 2 relay outputs and 2 digital outputs was developed for decentralized switching tasks. It is suitable for querying, for example, switching states and, as a result, switching motors or other actuators. In this case it is necessary to protect the relay contacts by appropriate load-dependent measures. The inputs and outputs are scanned and activated by SNVT network variables. The input terminals 1 to 4 are wired with the C2 terminals on two poles to potential-free switches or contacts. In addition, a wipe function is integrated. Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

- Connection with screw type terminal blocks

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**LF-DM4/4 LON**

**P/N**  
**1108561326**  
**EAN 4250184135784**  
2025/08/19  
Version: J

**Technical Data**

**Approvals**



Open Energy Management Equipment 34TZ

**RS485 interface**

Protocol	TP/FT-10, free topology
Neuron	FT5000
Data format	Standard network variables (SNVT)
Transmission parameters	
Transmission rate	78 Kbit/s
Line topology	2700 m / 64 nodes
Free topology	500 m / 64 nodes
Cabling	Twisted Pair

**Supply**

Operating voltage	24 V AC/DC +/- 10 % (SELV)
Power consumption	
Power consumption AC (max.)	200 mA
Power consumption DC (max.)	65 mA
Duty cycle relative	100 %
Recovery time	550 ms

**Inputs**

Digital inputs	4, potential-free
High signal detection	> 4.5 V DC

**Outputs**

Digital outputs	4
Relay output	2 normally open contacts
Switching voltage relay output (max.)	250 V AC
Continuous current relay output	6 A / relay
Semiconductor output	2 normally open contacts
Switching voltage semiconductor output (max.)	40 V AC/DC
Continuous current semiconductor output	100 mA
Switch-on current semiconductor output (max.)	500 mA
Switching frequency	360 switching cycles/h
Mechanical life	30x10 <sup>6</sup> switching cycles

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**Outputs**

Electrical life 9x10<sup>4</sup> switching cycles

**Isolation**

Nominal voltage of the power supply system 230 / 400 V AC

Overvoltage category III | II

Degree of pollution 2 | 2

Rated test voltage 4 kV | 2.5 kV

Type of insulation basic insulation | reinforced insulation

**Housing**

Dimensions

Dimension (W x H x D) 35 mm x 69.3 mm x 60 mm

Dimension (W x H x D) 1.378 in. x 2.728 in. x 2.362 in.

Weight 90 g

Mounting style Standard rail TH35

Mounting position any

Apposition without distance  
The maximum quantity of LON modules connected side-by-side is limited to 15 or to a maximum power consumption of 2 Amps (AC or DC) per connection to the power supply. For any similar block of additional modules a separate connection to the power supply is necessary.

Connection type Screw type terminal blocks

Indicator green and yellow LED

**Terminal blocks**

Supply and bus

Terminal block 4-pole

Solid wire (AWG) max. 1.5 mm<sup>2</sup> / max. 16 AWG

Stranded wire (AWG) max. 1 mm<sup>2</sup> / max. 18 AWG

Wire diameter min. 0.3 mm  
max. 1.4 mm

Module connection

Wire cross section solid 0.34 mm<sup>2</sup> - 2.5 mm<sup>2</sup> / AWG 22-12

Wire cross section multi 0.25 mm<sup>2</sup> - 2.5 mm<sup>2</sup> / AWG 22-12

Wire cross section with wire ferrule 0.25 mm<sup>2</sup> - 2.5 mm<sup>2</sup> / AWG 22-12

Screw torque (max.) 0.5 Nm

Stripping length (min.) 8 mm



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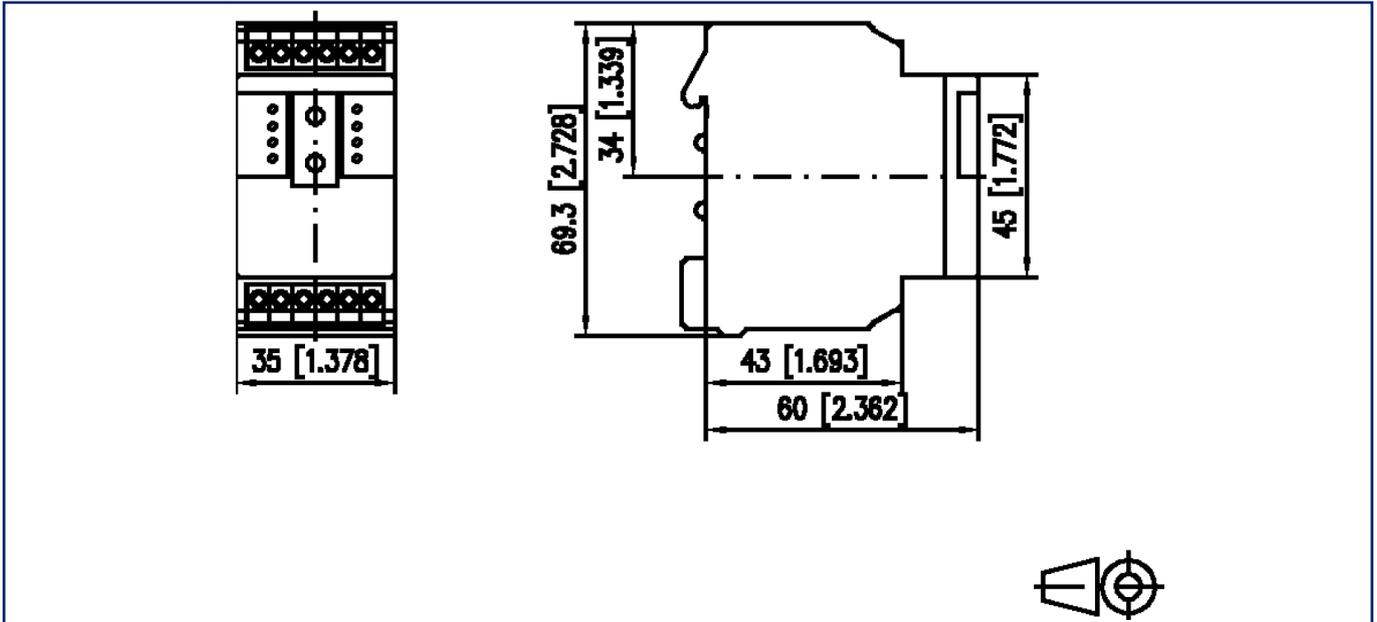
**P/N**  
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<b>P/N</b>	<b>Designation</b>
110369	Terminal block Type 259
110486	HUB DC
110561	Power supply NG4 24 V DC
11087913	LF-FAM LON
31135104	Typ 135 RIACON 135_3.5

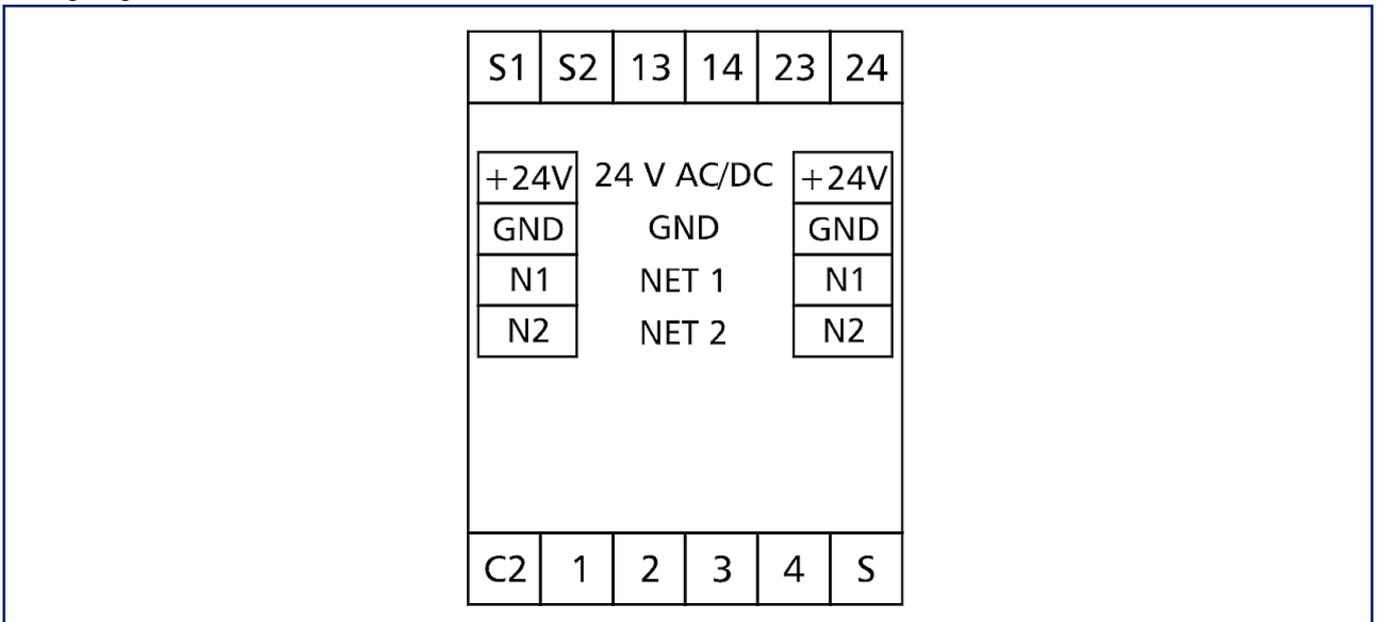


### Illustrations

Dimensional drawing



Wiring diagram



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