

Data sheet

LF-TO4 LON

Page 1/7

P/N

11086213

EAN 4250184146995

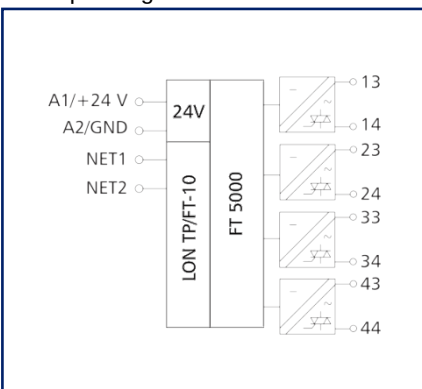
2025/08/19

Version: I

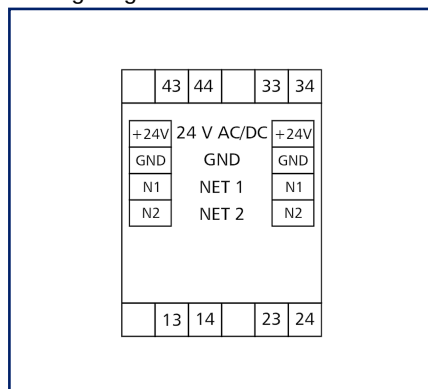
Illustrations



Principle diagram



Wiring diagram



See enlarged drawings at the end of document

Product specification

The LON module with 4 digital outputs was developed for decentralized switching tasks. It is suitable for switching electrical components, such as relays, contactors, HLK valves, etc. The 4 triacs can be controlled individually in a LON installation by means of standard network variables. The module has a manual control activated only in configured mode. In addition, an adjustable pulse/pause function is integrated. Suitable for decentralized mounting in serial sub-distributor.

- Connection with screw type terminal blocks



Data sheet LF-TO4 LON

Page 2/7

P/N
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2025/08/19

Version: I

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.)	63 mA
Power consumption DC (max.)	24 mA
Duty cycle relative	100 %
Recovery time	550 ms

Outputs

Digital outputs	4
Triac output	4
Switching voltage triac output (max.)	24 V - 250 V AC
Continuous current triac output	0.5 A / Triac
Switch-on current triac output (max.)	0.8 A < 30 s 10 A < 20 ms
Total current across all outputs	2.4 A



Data sheet LF-TO4 LON

Page 3/7

P/N
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2025/08/19

Version: I

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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.
Total depth with switch/plug	69 mm
Weight	104 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 ² / max. 16 AWG
Stranded wire (AWG)	max. 1 mm ² / max. 18 AWG
Wire diameter	min. 0.3 mm max. 1.4 mm

Module connection

Wire cross section solid	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section multi	0.25 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section with wire ferrule	0.25 mm ² - 2.5 mm ² / AWG 22-12
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm

Protection circuit	Polarity reversal protection for DC operating voltage
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Data sheet LF-TO4 LON

Page 4/7

P/N
11086213

EAN 4250184146995

2025/08/19

Version: I

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Material

Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat

Protection category according to IEC 60529

Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20

Climatic Data

Operating

Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Relative humidity	max. 85 % non-condensing

Storage

Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F

Classifications

ETIM 7.0	EC001097
ETIM 8.0	EC001097
ETIM 9.0	EC001097
ETIM 10.0	EC001097

Software and additional documents

Software and documentation	Further documentation is available for free download at www.metz-connect.com
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Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



Data sheet
LF-TO4 LON

Page 5/7

P/N
11086213**EAN 4250184146995**

2025/08/19

Version: I

Accessories

P/N	Designation
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



Data sheet

LF-TO4 LON

Page 6/7

P/N
11086213

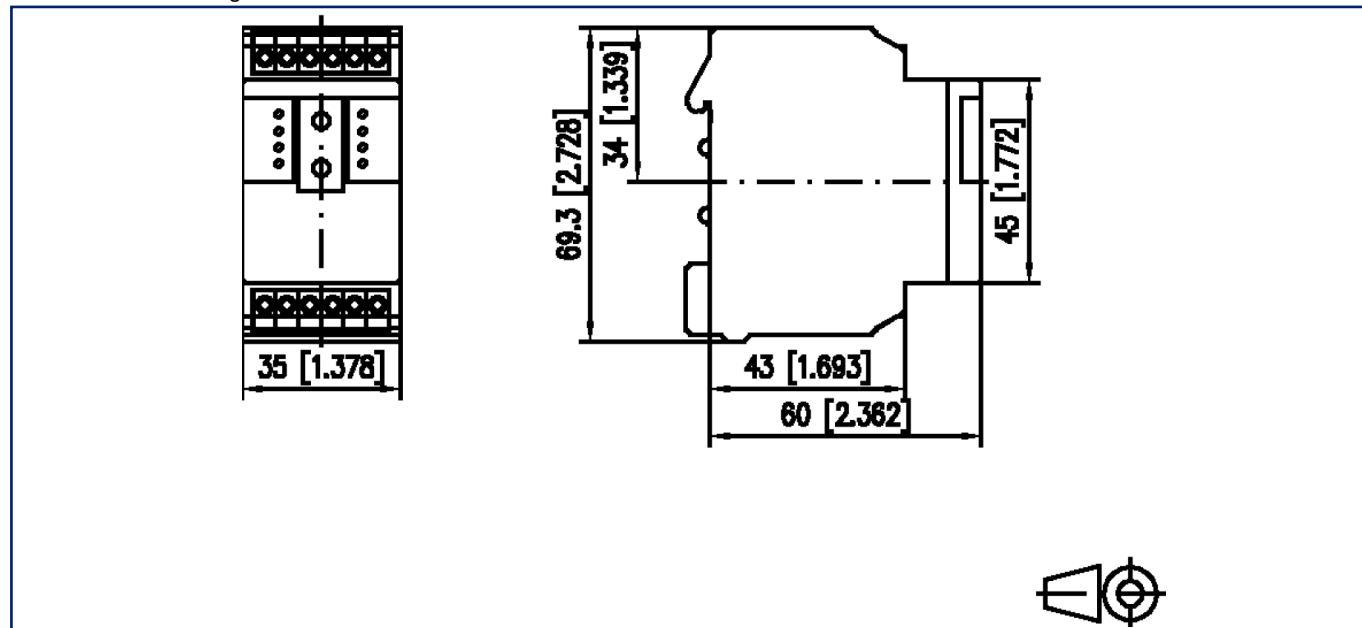
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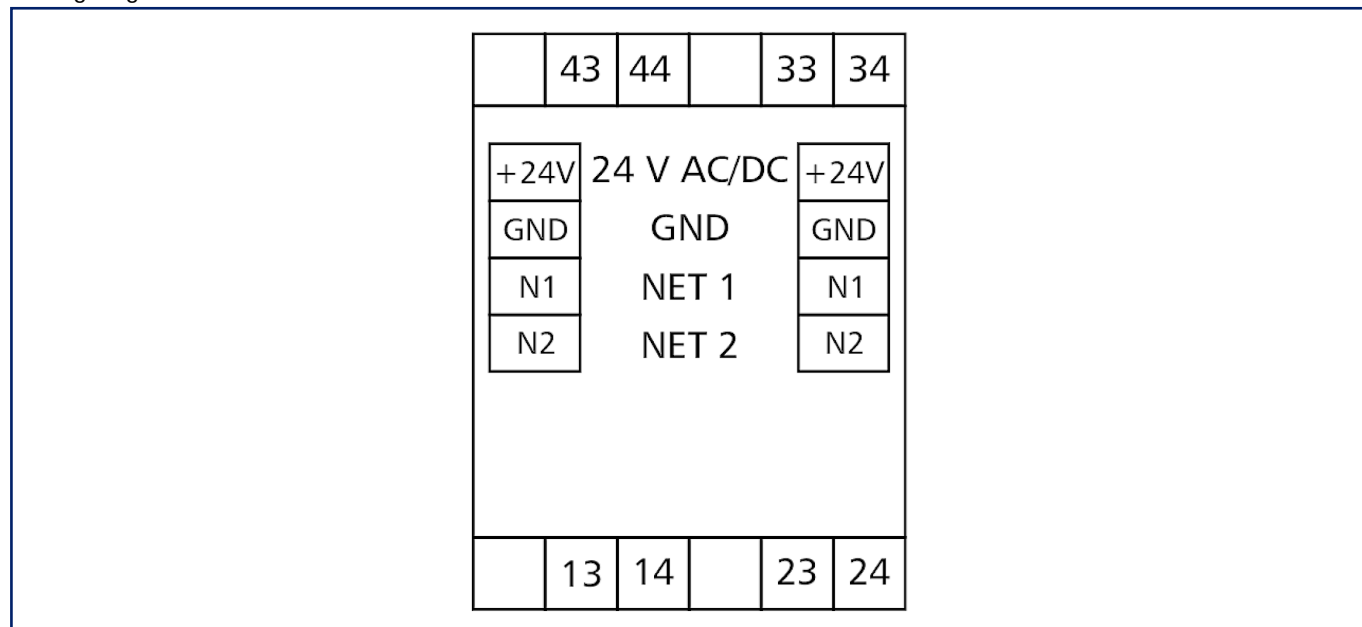
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Illustrations

Dimensional drawing



Wiring diagram



Data sheet

LF-TO4 LON

Page 7/7

P/N
11086213

EAN 4250184146995

2025/08/19

Version: I

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Principle diagram

