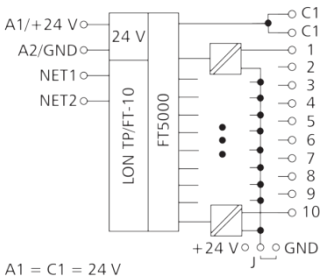
C | Logline

Data sheet
LF-DI10 LON

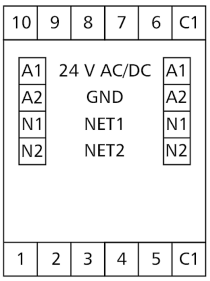
P/N
1108511319
EAN 4250184135692
2023/06/22
Version: F

Illustrations

Principle diagram



Wiring diagram



See enlarged drawings at the end of document

Product specification

The LON module with 10 digital inputs was developed for decentralized switching tasks. It is suitable for detecting potential-free switch states, for example electrical limit switches on vent valves or auxiliary contacts of power contactors. The inputs can be used as contact or voltage inputs and scanned individually or simultaneously by SNVT network variables. Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

- Connection with screw type terminal blocks

METZ CONNECT GmbH | Im Tal 2 | 78176 Blumberg | Germany
Phone +49 7702 533-0 | Fax +49 7702 533-433
Weitere Dokumentation siehe / additional documentation see / documentation supplémentaire voir www.metz-connect.com

Data sheet
LF-DI10 LON

P/N
1108511319
EAN 4250184135692
2023/06/22
Version: F

Technical Data

Approvals	
c UL US LISTED	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.)	21 mA
Duty cycle relative	100 %
Recovery time	550 ms
Inputs	
Digital inputs	10
Voltage input	30 V AC/DC
High signal detection	> 8 V AC/DC
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	72 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	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., without distance

Data sheet
LF-DI10 LON

P/N
1108511319
EAN 4250184135692
2023/06/22
Version: F

Technical Data

Housing	
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 mm² / max. 16 AWG
Stranded wire (AWG)	max. 1 mm² / max. 18 AWG
Wire diameter	max. 1.4 mm - min. 0.3 mm
Module connection	
Wire cross section solid	0.34 mm² - 2.5 mm² / AWG 22-12
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 22-12
Wire cross section with wire ferrule	0.25 mm² - 2.5 mm² / AWG 22-12
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm
Protection circuit	Polarity reversal protection for DC operating voltage
Material	
Material - Housing	Polyamid 6.6 V0
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
Temperature range	
Operating	
Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Storage	
Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F

Data sheet
LF-DI10 LON

P/N
1108511319
EAN 4250184135692
2023/06/22
Version: F

Technical Data

Classifications	
ETIM 7.0	EC000688
ETIM 8.0	EC000688
ETIM 9.0	EC000688
Software and additional documents	
Software and documentation	Further documentation is available for free download at www.metz-connect.com

Data sheet
LF-DI10 LON

P/N
1108511319
EAN 4250184135692
2023/06/22
Version: F

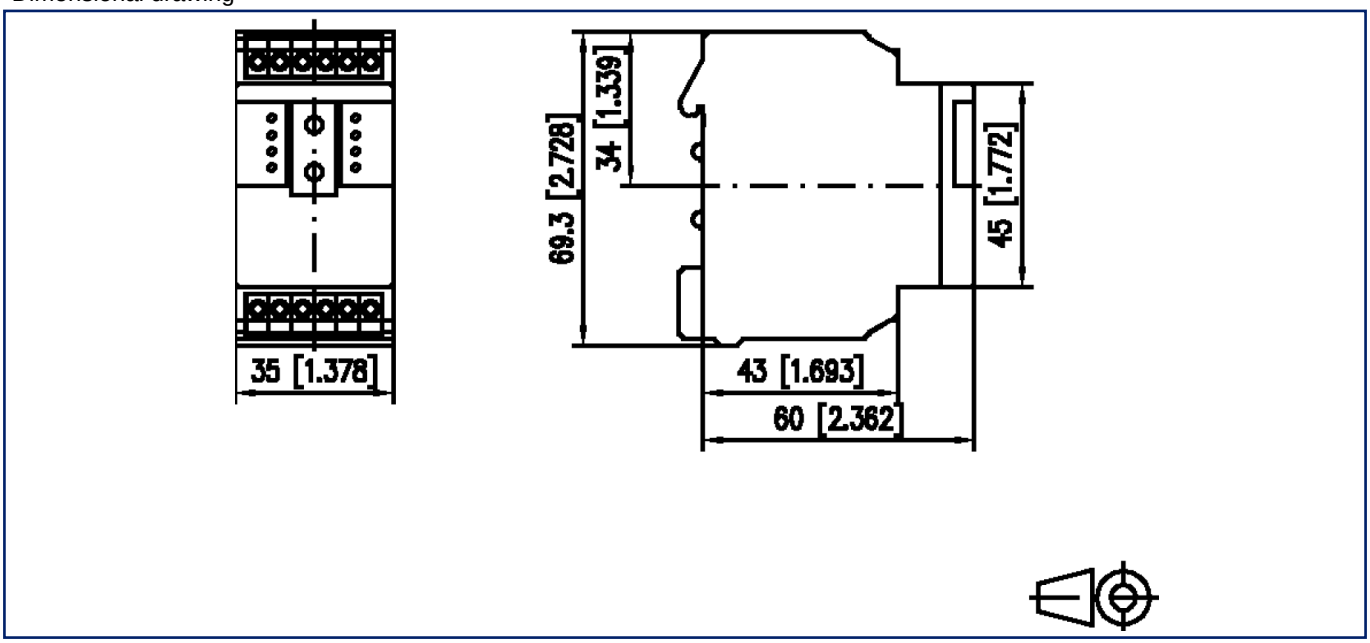
Accessories

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

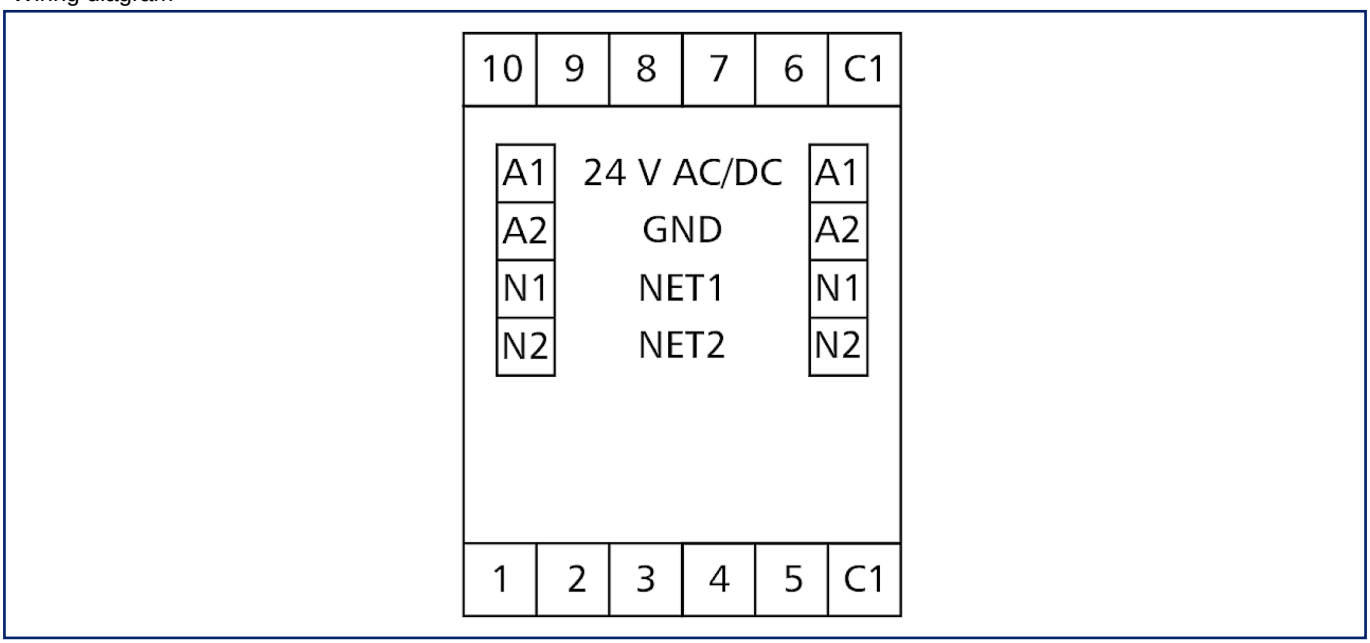
P/N
1108511319
EAN 4250184135692
2023/06/22
Version: F

Illustrations

Dimensional drawing



Wiring diagram



P/N
1108511319
EAN 4250184135692
2023/06/22
Version: F

Illustrations

Principle diagram