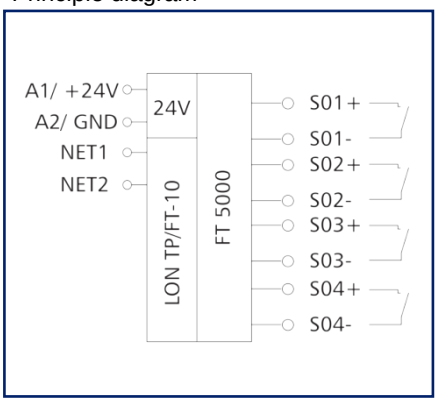
C | Logline

Data sheet
LF-F-SI4 LON

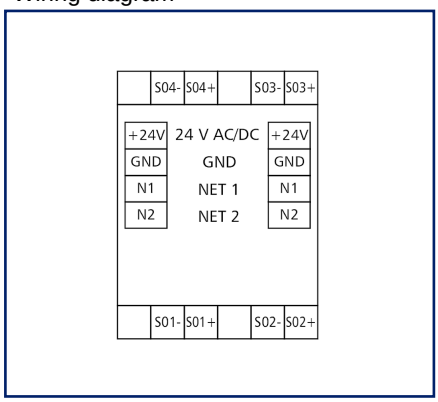
P/N
1108581370
EAN 4251394620886
2023/06/23
Version: E

Illustrations

Principle diagram



Wiring diagram



See enlarged drawings at the end of document

Product specification

The LON module with 4 S0 inputs to DIN EN 62053-31 class A was developed for decentralized switching tasks. It is suitable for counting S0 counter pulses. The software contains the LONMARK profile 2201-10 utility meter. This allows very good integration of the module into a LON-based energy controlling system. For each channel, the module saves up to 500 data records consisting of counter pulses and time stamps by means of a real-time clock (RTC). This makes it possible to use the LF-SI4 also as data logger. In case of a power failure, the data records remain saved. SNVT network variables allow scanning the inputs individually or simultaneously. Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

- Connection with spring clamp terminal blocks (push-in)

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet
LF-F-SI4 LON

P/N
1108581370
EAN 4251394620886
2023/06/23
Version: E

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.)	210 mA
Power consumption DC (max.)	82 mA
Duty cycle relative	100 %
Recovery time	550 ms
Inputs	
S0 inputs acc. to DIN EN 62053-31 Class A	4
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	83 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
Connection type	Spring clamp terminal blocks

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet
LF-F-SI4 LON

P/N
1108581370
EAN 4251394620886
2023/06/23
Version: E

Technical Data

Housing	
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	0.2 mm² - 2.5 mm² / AWG 24-14
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 24-12
Wire cross section with wire ferrule	0.25 mm² - 1.5 mm² / AWG 24-16
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

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet
LF-F-SI4 LON

P/N
1108581370
EAN 4251394620886
2023/06/23
Version: E

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

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet
LF-F-SI4 LON

P/N
1108581370
EAN 4251394620886
2023/06/23
Version: E

Accessories

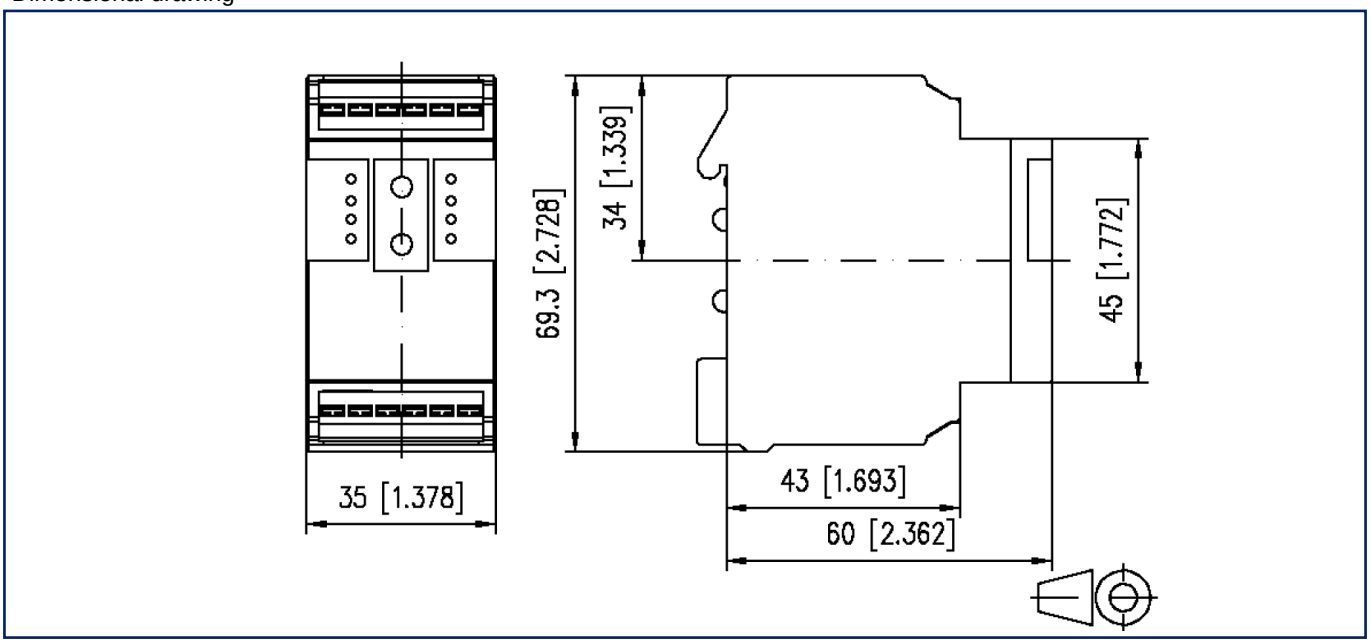
P/N	Designation
110214	U10 USB Network Interface - TP/FT-10 Channel
110369	Terminal block Type 259
11056170	Power supply NG4-F 24 V DC
11087913	LF-FAM LON
31135104	Typ 135 RIACON 135_3.5

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

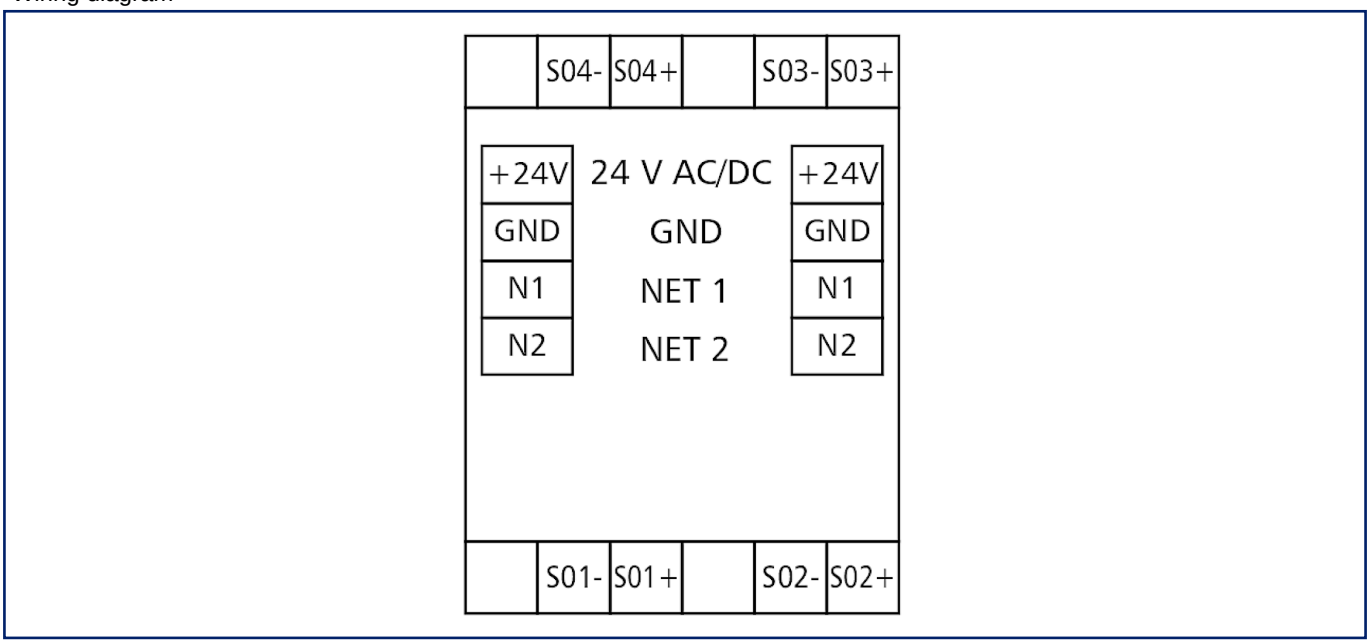
P/N
1108581370
EAN 4251394620886
2023/06/23
Version: E

Illustrations

Dimensional drawing



Wiring diagram

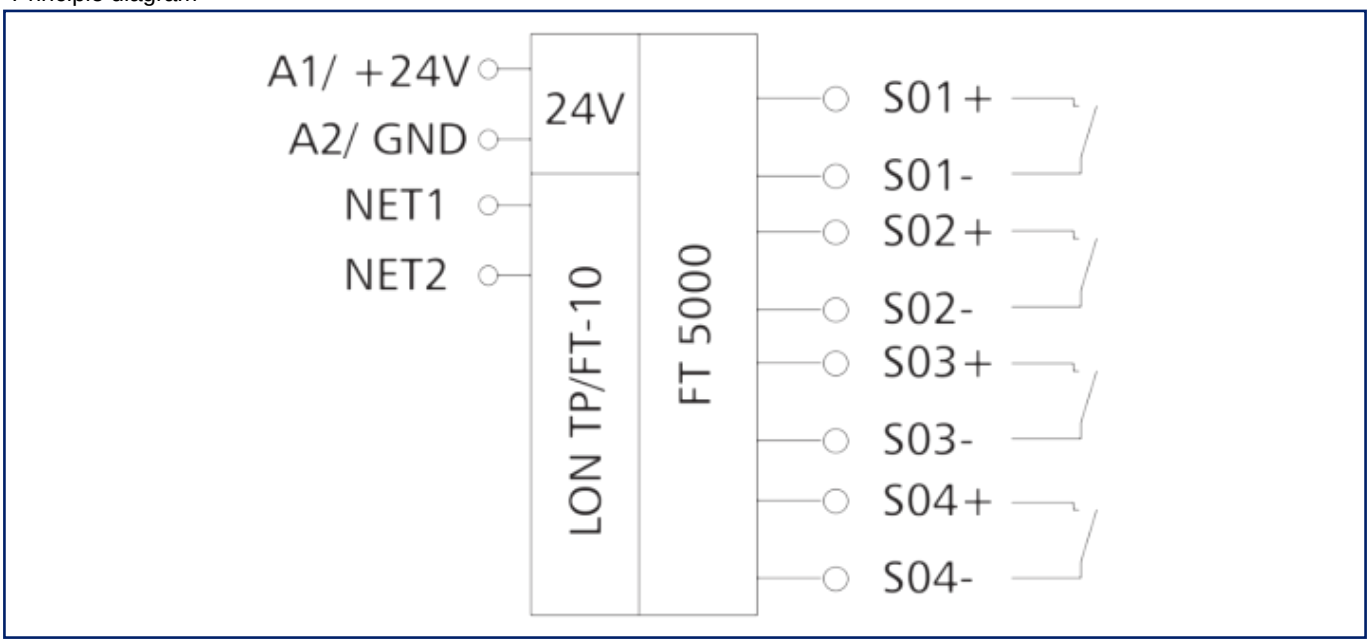


© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

P/N
1108581370
EAN 4251394620886
2023/06/23
Version: E

Illustrations

Principle diagram



© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!