METZ CONNECT

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Data sheet
LF-SI4
LON module with S0 inputs

Part number
11085813

2014-06-30

Illustrations

c UL us LISTED

Open Energy Management Equipment 34TZ

Principle diagram

A1/ +24V
A2/ GND
NET1
NET2

24V

LON TP/FT-10   FT 5000

S01+
S01-
S02+
S02-
S03+
S03-
S04+
S04-

Use copper conductors only

Wiring

S04-	S04+		S03-	S03+
+24V	24 V AC/DC			+24V
GND		GND		GND
N1		NET 1		N1
N2		NET 2		N2
S01-	S01+		S02-	S02+
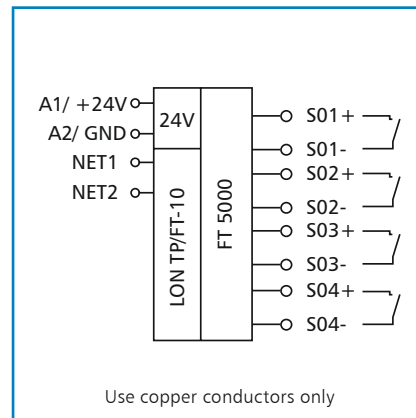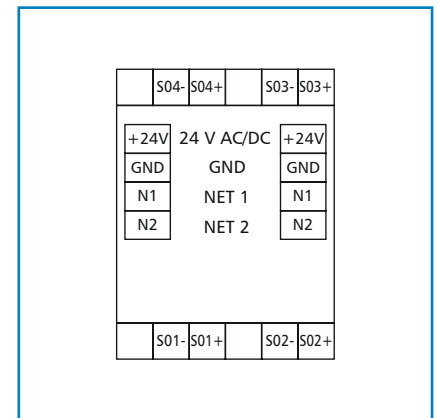
## Product description

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.

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Technical data

Approvals

C-UL Certification	Open Energy Management Equipment 34TZ

LON interface

Transceiver	TP/FT-10 free topology
Neuron	FT5000
Data format	Standard network variables (SNVT)
Transmission rate	78 kBit/s
Max. length	
Line topology	2700 m / 64 nodes
Free topology	500 m / 64 nodes
Cabling	Twisted Pair

Supply

Operating voltage range	20 to 28 V AC/DC (SELV)
Current consumption	210 mA (AC) / 82 mA (DC)
Relative duty cycle	100 %
Recovery time	550 ms

Intput

Inputs	4x S0 according to DIN EN 62053-31 Class A

Housing

Dimensions WxHxD	1.378 x 2.728 x 2.362 in. (35 x 69.3 x 60 mm)
Weight	83 g
Mounting position	any
Mounting	on TH35 rail per IEC 60715
Side-by-side mounting	Without space 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.
Material	
Housing	polyamide 6.6 V0
Terminal blocks	polyamide 6.6 V0
Cover plate	polycarbonate
Type of protection (IEC 60529)	
Housing	IP40
Terminal blocks	IP20

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Terminal blocks

Supply and bus	
Terminal block	4-pole
Solid wire	max. AWG 16 (1.5 mm²)
Stranded wire	max. AWG 18 (1.0 mm²)
Wire diameter	0.3 mm to max. 1.4 mm
Module connection, S0 inputs	
Solid wire	max. AWG 12 (4 mm²)
Stranded wire	max. AWG 14 (2.5 mm²)
Wire diameter	0.3 mm to max. 2.7 mm
Protective circuitry	Polarity reversal protection of operating voltage
	Polarity reversal protection of supply and bus

Temperature range

Operation	23 °F to 131 °F (-5 °C to +55 °C)
Storage	-4 °F to +158 °F (-20 °C to +70 °C)

Display

Operation	green LED
Status (Service)	yellow LED
State of the inputs	yellow LEDs

Additional documents

Software description, mounting note, certificates	All additional documents are available for download at www.metz-connect.com

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Dimensional drawing

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