

# Data sheet

## LF-SI4 LON

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11085813

EAN 4250184135807

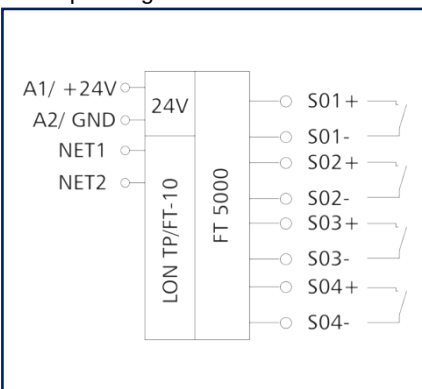
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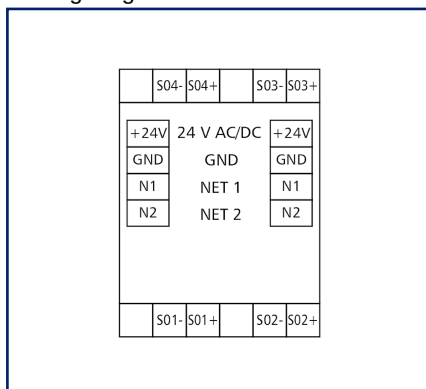
## Illustrations



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 screw type terminal blocks



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### 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.) | 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            | without distance<br>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                                                                                                                                                                                                                                                                     |



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### Technical Data

#### Housing

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<br>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                                                   |

Protection circuit Polarity reversal protection for DC operating voltage

#### 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 |



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**Technical Data****Classifications**

|           |          |
|-----------|----------|
| ETIM 7.0  | EC000688 |
| ETIM 8.0  | EC000688 |
| ETIM 9.0  | EC000688 |
| ETIM 10.0 | EC000688 |

**Software and additional documents**

Software and documentation

Further documentation is available for free download at [www.metz-connect.com](http://www.metz-connect.com)**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.).



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**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   |



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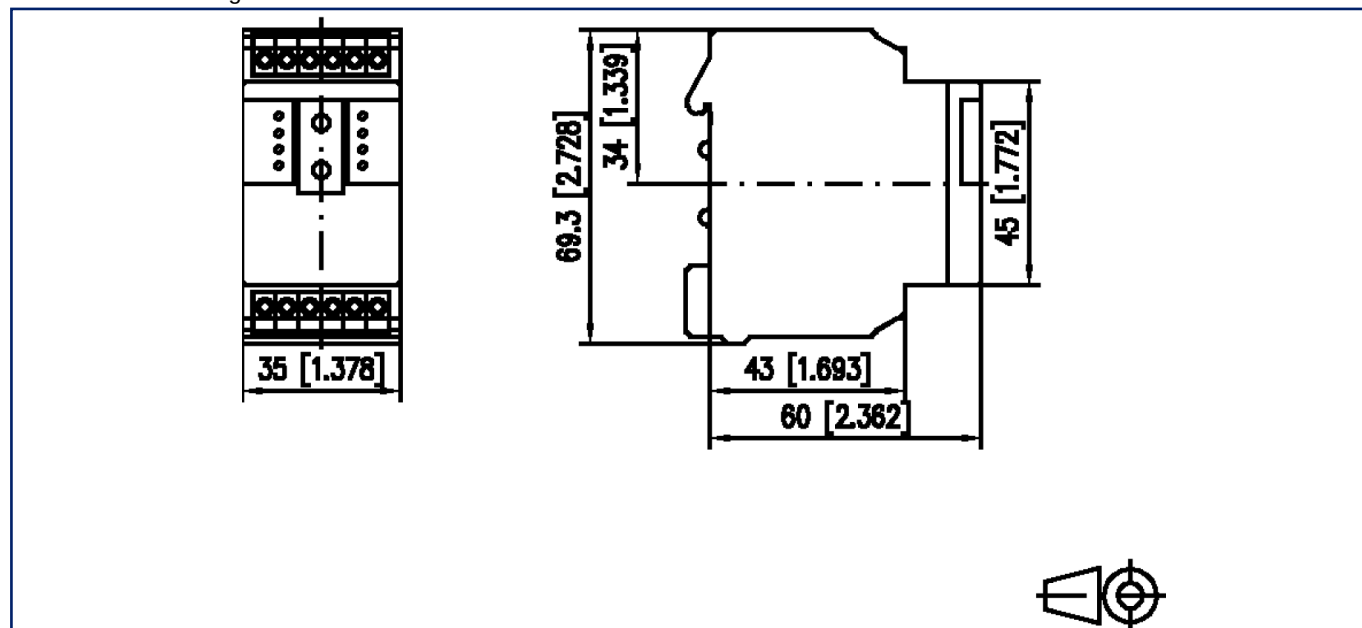
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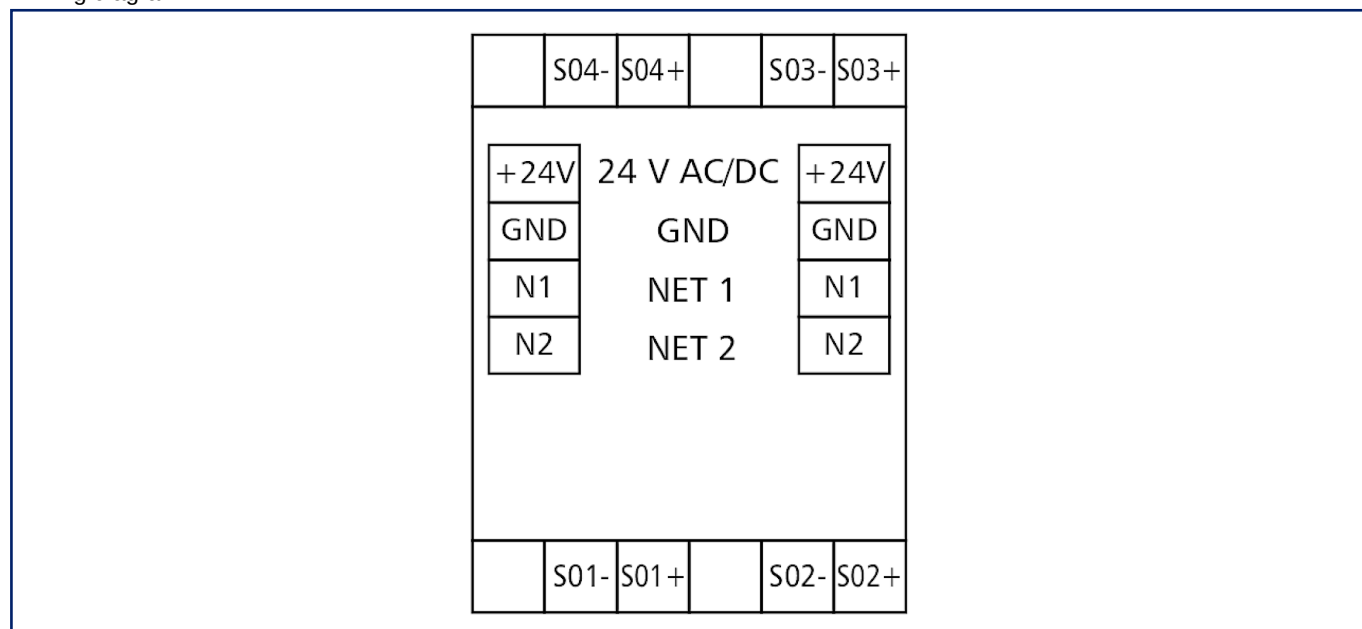
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## Illustrations

Dimensional drawing



Wiring diagram



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Principle diagram

