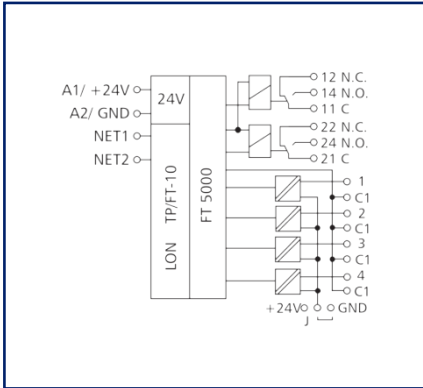


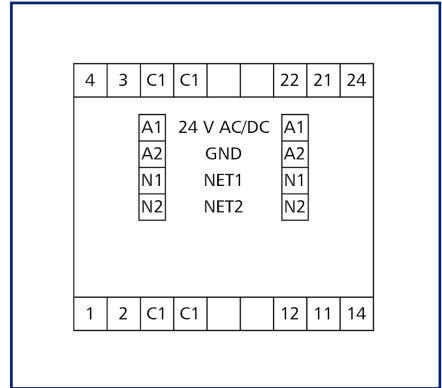
Illustrations



Principle diagram



Wiring diagram



See enlarged drawings at the end of document

Product specification

The LON module with 4 digital inputs and 2 relay outputs was developed for decentralized switching tasks. It is suitable for accommodating, for example, light switches and window contacts in a room, switching two light strips or controlling louvers. It can also be used to control 2 motorized fire dampers. In this case it is necessary to protect the relay contacts by appropriate load-dependent measures. The inputs can be used either as contact or voltage inputs. SNVT network variables switch and scan the inputs and outputs. The outputs have a manual control activated only in configured mode. In addition, an adjustable wipe function is integrated. Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

- Connection with screw type terminal blocks

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.) | 220 mA |
| Power consumption DC (max.) | 90 mA |
| Duty cycle relative | 100 % |
| Recovery time | 550 ms |

Inputs

| | |
|-----------------------|-------------|
| Digital inputs | 4 |
| Voltage input | 30 V AC/DC |
| High signal detection | > 7 V AC/DC |

Outputs

| | |
|---------------------------------------|-------------------------------------|
| Digital outputs | 2 |
| Relay output | 2 changeover contacts |
| Switching voltage relay output (max.) | 250 V AC |
| Continuous current relay output | 16 A / relay |
| Switch-on current relay output (max.) | 80 A < 20 ms |
| Total current across all outputs | 25 A |
| Switching frequency | 360 switching cycles/h |
| Mechanical life | 30x10 ⁶ switching cycles |
| Electrical life | 9x10 ⁴ switching cycles |

Technical Data

| Insulation coil - contact set | |
|--|--|
| Nominal voltage of the power supply system | 230 / 400 V AC |
| Overvoltage category | III II |
| Degree of pollution | 2 2 |
| Rated test voltage | 4 kV 2.5 kV |
| Type of insulation | basic insulation reinforced insulation |
| Housing | |
| Dimensions | |
| Dimension (W x H x D) | 50 mm x 69.3 mm x 60 mm |
| Dimension (W x H x D) | 1.969 in. x 2.728 in. x 2.362 in. |
| Total depth with switch/plug | 69 mm |
| Weight | 126 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 | 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 | max. 1.4 mm - min. 0.3 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 |

Technical Data

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 |

Classifications

| | |
|----------|----------|
| ETIM 7.0 | EC001584 |
| ETIM 8.0 | EC001584 |
| ETIM 9.0 | EC001584 |

Software and additional documents

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

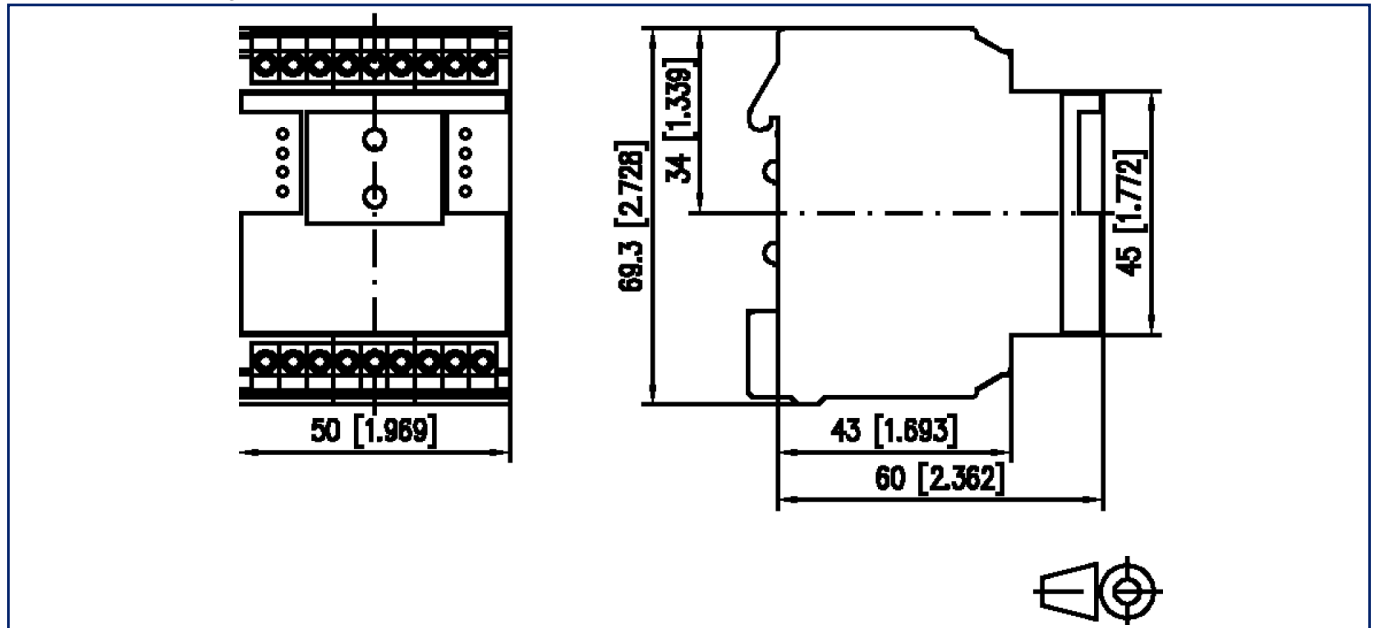
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Accessories

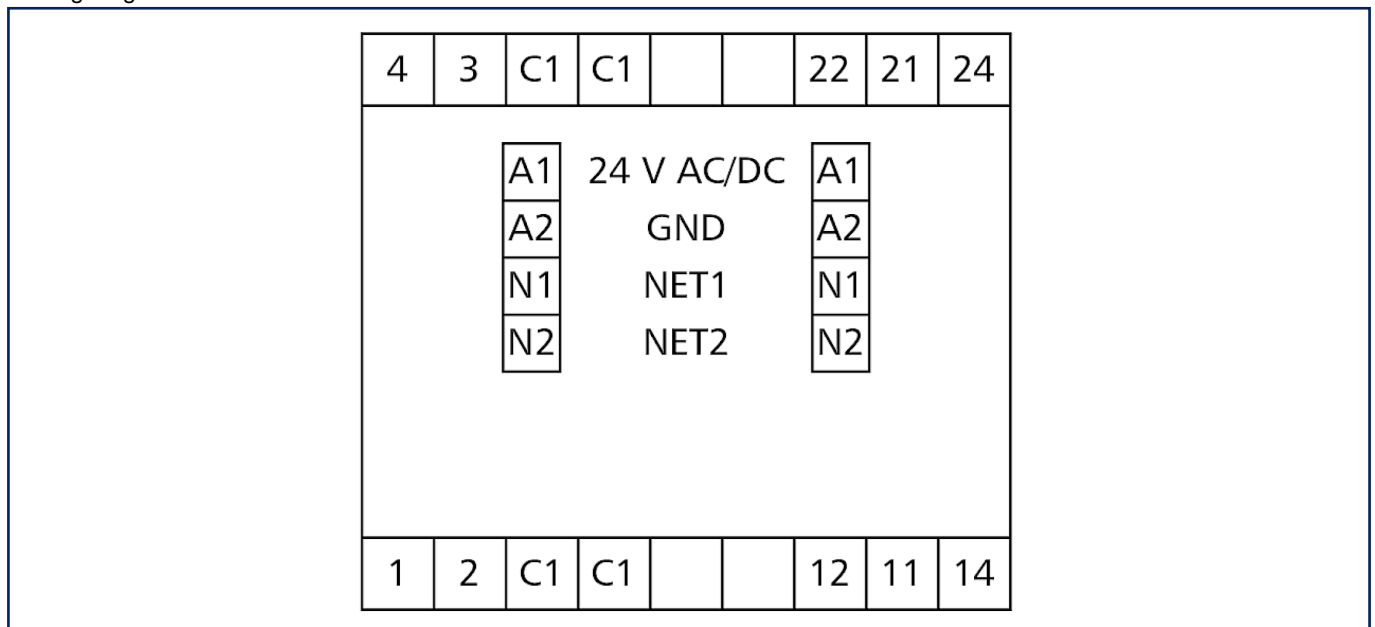
| P/N | Designation |
|----------|--------------------------|
| 110369 | Terminal block Type 259 |
| 110486 | HUB DC |
| 110561 | Power supply NG4 24 V DC |
| 11087913 | LF-FAM LON |
| 31135104 | Typ 135 RIACON 135_3.5 |

Illustrations

Dimensional drawing

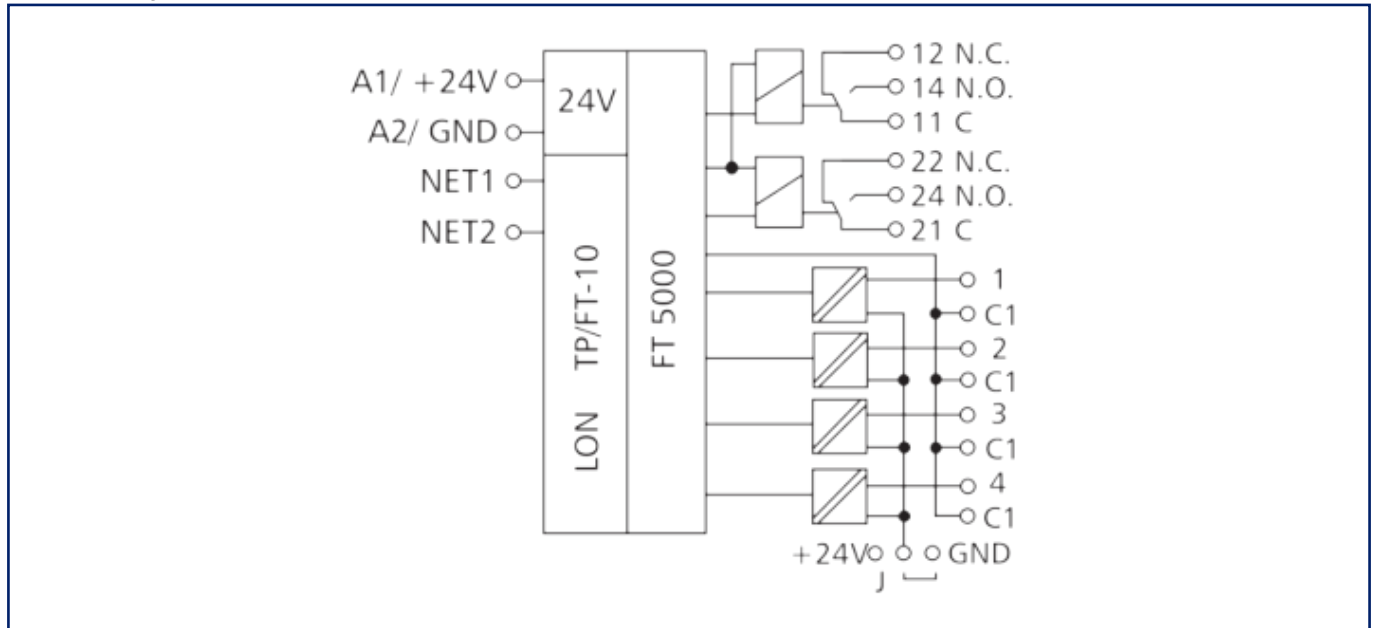


Wiring diagram



Illustrations

Principle diagram



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