

Data sheet

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LF-DIO4/2

Part number
1108551326

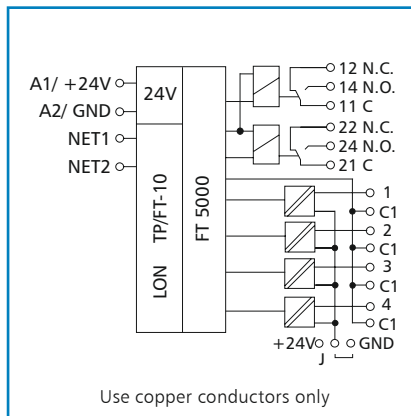
LON module with digital inputs and outputs

2016-07-19

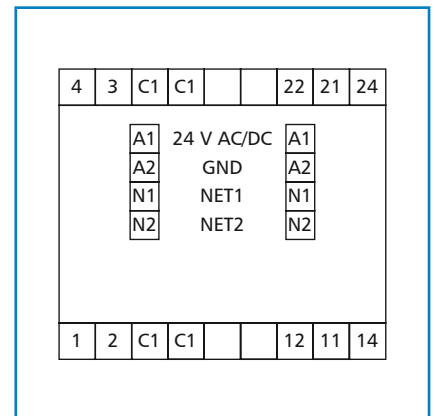
Illustrations



Principle diagram



Wiring



Product description

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.

With strong inductive loads, we recommend protecting the relay contacts with an RC element.

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.

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Technical data

Approvals

C-UL Certification	Open Energy Management Equipment 34TZ
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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	220 mA (AC) / 90 mA (DC)
Relative duty cycle	100 %
Recovery time	550 ms

Inputs

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

Outputs

Outputs	2x relay output
Output contact	2x changeover contacts
Switching voltage	250 V AC
Input / output current max.	80 A
Nominal current	16 A
Total current over all contacts	max. 25 A
Contact fuse	max. 16 A
Mechanical endurance	30 x 10 ⁶ switching cycles
Electrical endurance	9 x 10 ⁴ switching cycles
Permissible switching frequency	6 per minute at nominal current

General informations

Rated insulation voltage	230/400 V AC	
Overvoltage category	III	II
Pollution degree	2	2
Rated surge voltage	4 kV	2.5 kV
Type of insulation	basic insulation	reinforced insulation

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Housing

Dimensions WxHxD	1.969 x 2.728 x 2.362 in. (50 x 69.3 x 60 mm)
Depth including switches	2.717 in. (69 mm)
Weight	126 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

Terminal blocks

Supply and bus	
Terminal block	4-pole
Solid wire	max. AWG 16 (1.5 mm ²)
Stranded wire	max. AWG 18 (1.0 mm ²)
Wire diameter	0.3 mm to max. 1.4 mm
Module connection, digital inputs and outputs	
Solid wire	max. AWG 12 (4 mm ²)
Stranded wire	max. AWG 14 (2.5 mm ²)
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 inputs and outputs	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

