

Data sheet

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LF-TP

**Part number
11085913**

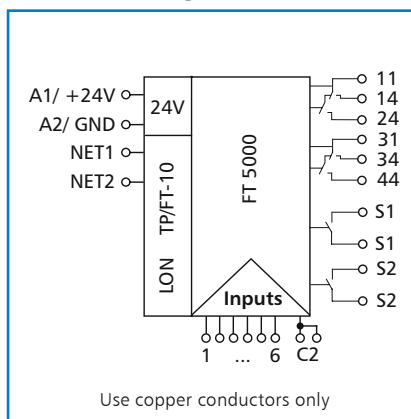
LON mixed digital module

2014-06-30

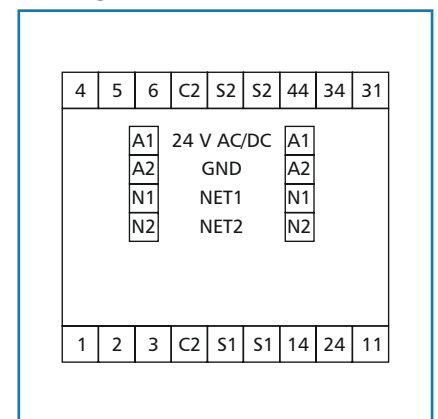
Illustrations



Principle diagram



Wiring



Product description

The LON three-point module with 6 digital inputs, 2 two-level relay outputs and 2 digital outputs was developed for decentralized switching tasks. It is suitable for switching, for example, multi-level pumps, fans, burners or similar. With strong inductive loads, we recommend protecting the relay contacts additionally with an RC element.

The inputs and outputs are scanned and activated by SNVT network variables. The input terminals 1 to 6 are wired with the C2 terminals on two poles to potential-free switches or contacts. The module has a manual control for the outputs, which is activated only in configured mode.

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

Versorgung

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

Input

Digital inputs	6
Switching threshold	4.5 V DC

Output

Outputs	2x NO contact (semiconductor) 2x two-level (relay)
Semiconductor relay	
Switching voltage	2x 40 V AC/DC
Input / output current max.	500 mA
Nominal current	100 mA
Relay	
Switching current	2x 250 V AC
Nominal current	6 A (relay)
Mechanical endurance	30 x 10 ⁶ switching cycles
Electrical endurance	9 x 10 ⁴ switching cycles
Permissible switching frequency	6 per min. at nominal current

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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

