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METZ CONNECT
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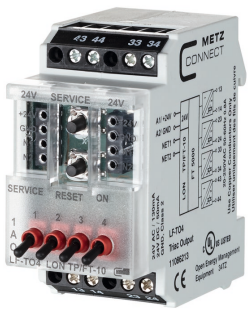
Data sheet

LF-TO4
LON module with digital outputs

Part number
11086213

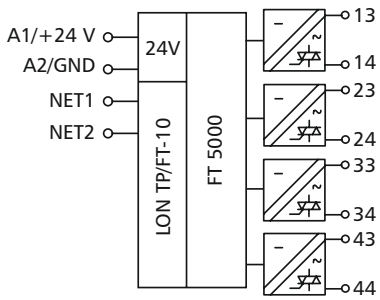
2014-06-30

Illustrations



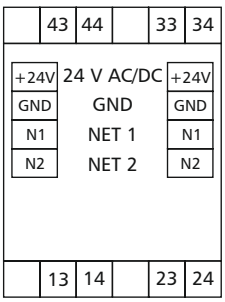
c UL US LISTED
Open Energy Management Equipment 34TZ

Principle diagram



Use copper conductors only

Wiring



Product description

The LON module with 4 digital outputs was developed for decentralized switching tasks. It is suitable for switching electrical components, such as relays, contactors, HVAC valves, etc. The 4 triacs can be controlled individually in a LON installation by means of standard network variables.

The module has a manual control activated only in configured mode. In addition, an adjustable pulse/pause function is integrated.

Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

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Additional documentation see www.metz-connect.com

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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	63 mA (AC) / 24 mA (DC)
Relative duty cycle	100 %
Recovery time	550 ms
Outputs	
Digital outputs	4x Triac
Switching voltage max.	20 to 250 V AC
Nominal current	0.8 A
Fuse protection of triacs	2 A each
Total current over all outputs	max. 2.4 A
Housing	
Dimensions WxHxD	1.378 x 2.728 x 2.362 in. (35 x 69.3 x 60 mm)
Depth including switches	2.717 in. (69 mm)
Weight	104 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 und 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, digital outputs	
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 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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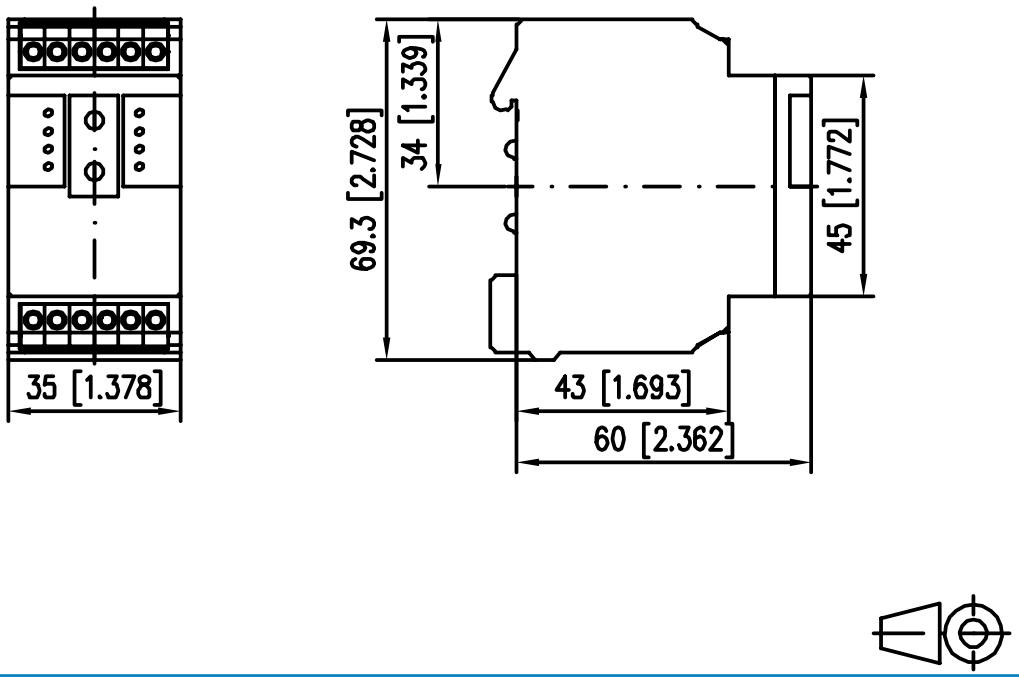
Dimensional drawing



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