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METZ CONNECT
We realize ideas

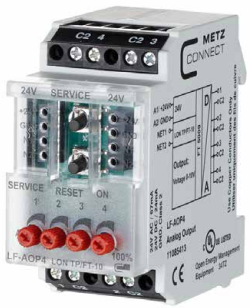
Data sheet

LF-AOP4
LON module with analog outputs

Part number
11085413

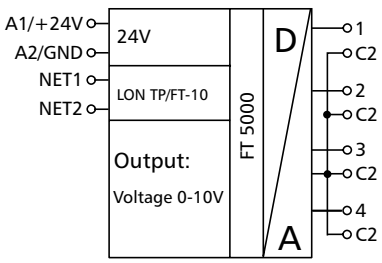
2015-03-20

Illustrations



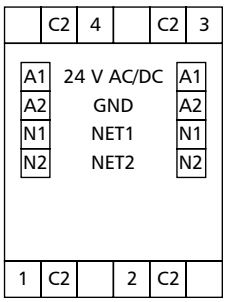
c UL US LISTED
Open Energy Management Equipment 34TZ

Principle diagram



Use copper conductors only

Wiring



Product description

The LON module with 4 analog outputs was developed for decentralized switching tasks. It is suitable as encoder for control variables, for example for electrical vent and mixing valves, valve positions, etc. The analog outputs can be activated proportionally by SNVT network variables, or previously defined voltage values can be adjusted.

Each output can be set for automatic or manual operation by means of 4 potentiometers at the front.

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	100 mA (AC) / 40 mA (DC)
Relative duty cycle	100 %
Recovery time	550 ms
Output	
Outputs	4x analog
Output voltage	0 to 10 V DC
Output current	5 mA at 10 V DC
Resolution	0.625 mV / Digit
Error	100 mV
Housing	
Dimensions WxHxD	1.378 x 2.728 x 2.362 in. (35 x 69.3 x 60 mm)
Depth including potentiometers	2.520 in. (64 mm)
Weight	84 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 and 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, analog 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
Additional documents	
oftware description, mounting note, certificates	All additional documents are available for download at www.metz-connect.com

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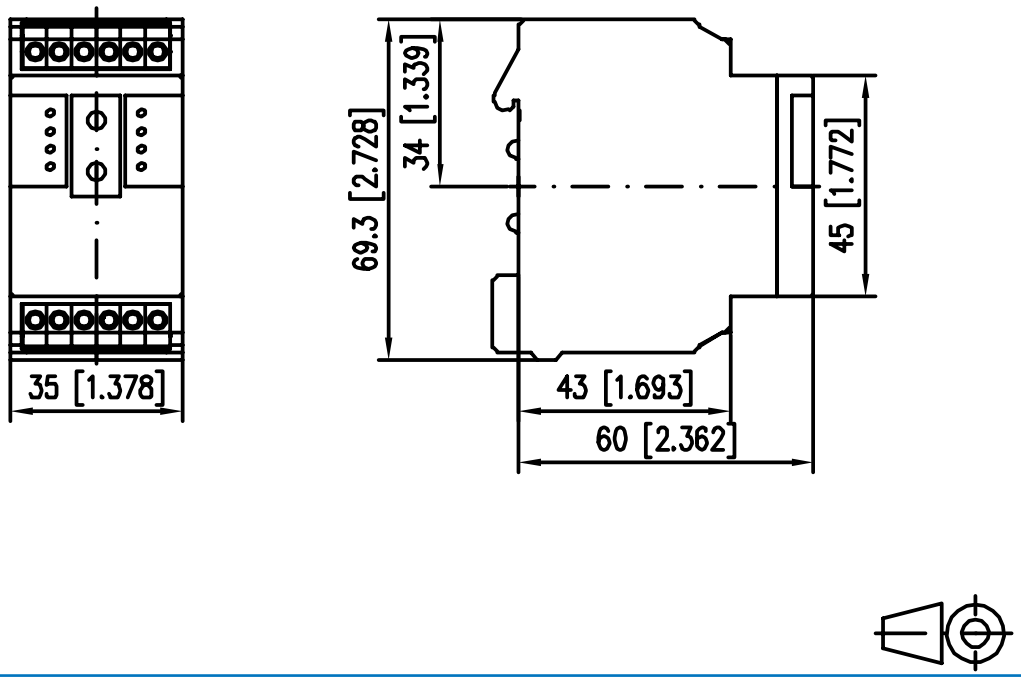
Dimensional drawing



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