Data sheet

LF-TI-IP65 LON

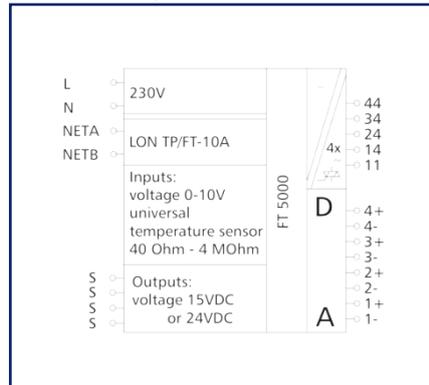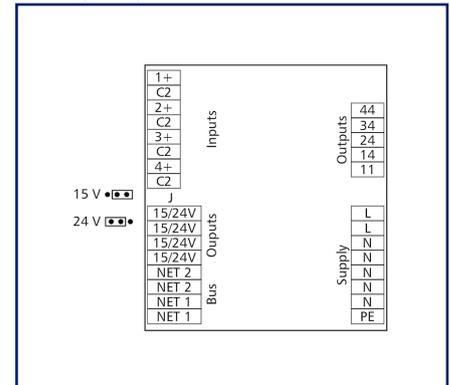## Illustrations

Principle diagram

Wiring diagram

See enlarged drawings at the end of document

Product specification

The LON module in an IP65 housing with 4 universal inputs and 4 digital outputs was developed for decentralized switching tasks. It is suitable for detecting temperatures or voltages or for switching 4 thermal valve drives with triacs. The inputs and outputs are scanned and activated by SNVT network variables. The outputs can be operated either only switching or in clocking mode with adjustable pulse/pause ratio.

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Technical Data

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	230 V AC -10% ... +10%
Power consumption	
Power consumption (max.)	25 mA
Duty cycle relative	100 %
Recovery time	550 ms

Inputs

Analog inputs	4
Resistance range	40 Ohm - 4 MOhm
Voltage range	0 V - 10 V DC
Resolution voltage input	10 mV
Error voltage input	approx. +/- 100 mV

Outputs

Digital outputs	4
Triac output	4
Switching voltage triac output (max.)	20 V - 250 V AC
Continuous current triac output	0.8 A / Triac
Total current across all outputs	2.4 A
Protection	2 A

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Technical Data

Housing

Dimensions	
Dimension (W x H x D)	160 mm x 40.7 mm x 120 mm
Dimension (W x H x D)	6.299 in. x 1.602 in. x 4.724 in.
Weight	330 g
Mounting style	directly on a flat surface, 8 knock-out openings for M12 and M16 cable glands
Mounting position	any
Connection type	Spring clamp terminal blocks
Indicator	green and yellow LED

Terminal blocks

Supply and bus	
Terminal block	4-pole
Solid wire (AWG)	max. 1.5 mm² / max. 16 AWG
Stranded wire (AWG)	max. 1 mm² / max. 18 AWG
Wire diameter	min. 0.3 mm max. 1.4 mm
Module connection	
Wire cross section solid	0.2 mm² - 1.5 mm² / AWG 28-18
Wire cross section multi	0.08 mm² - 0.75 mm² / AWG 28-18
Wire cross section with wire ferrule	0.08 mm² - 0.75 mm² / AWG 28-20
Stripping length (min.)	4 mm
Protection circuit	Polarity reversal protection for DC operating voltage Protection against interchanging power supply and bus

Material

Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat

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Technical Data

Protection category according to IEC 60529

Protection category - housing (acc. to IEC 60529)	IP65
Protection category - terminal blocks (acc. to IEC 60529)	IP20

Climatic Data

Operating

Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Relative humidity	max. 85 % non-condensing

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
ETIM 10.0	EC001584

Software and additional documents

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

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

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Accessories

P/N	Designation
110368	TSH 35 Hutschienenhalter für IP65
110486	HUB DC
110561	Power supply NG4 24 V DC
11087913	LF-FAM LON
ASP0250404	SP025xxHDNC ASP025

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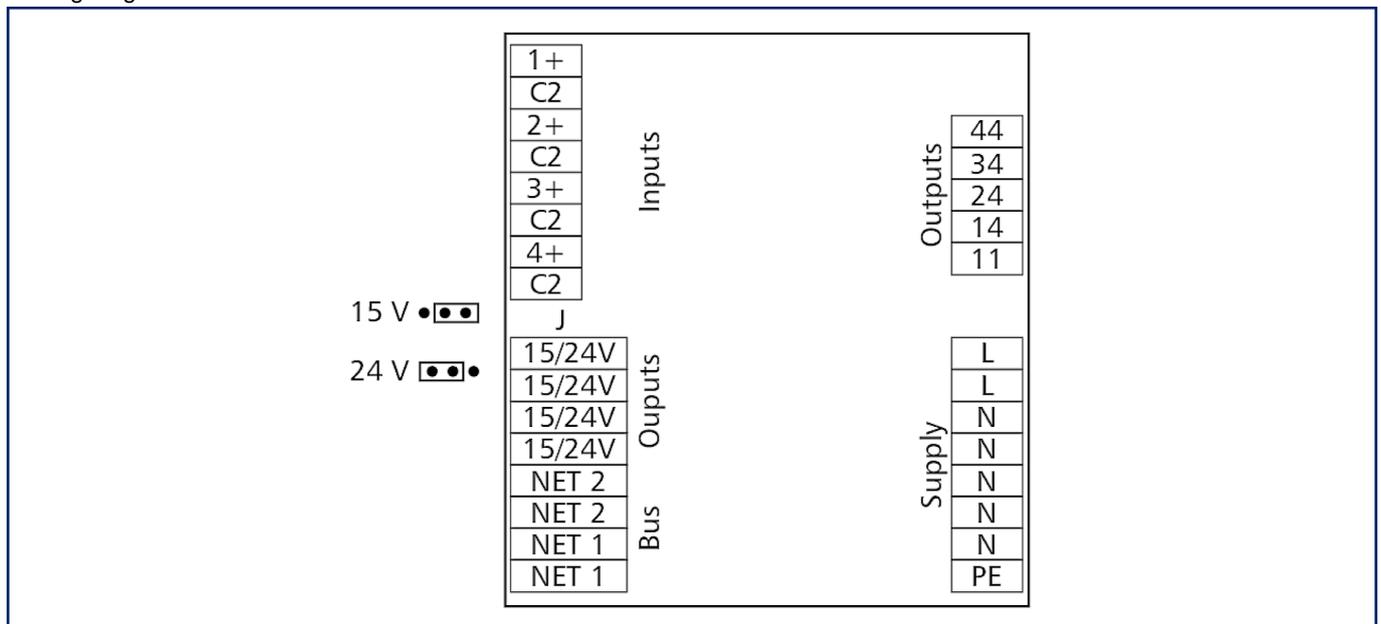**P/N**
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Illustrations

Dimensional drawing
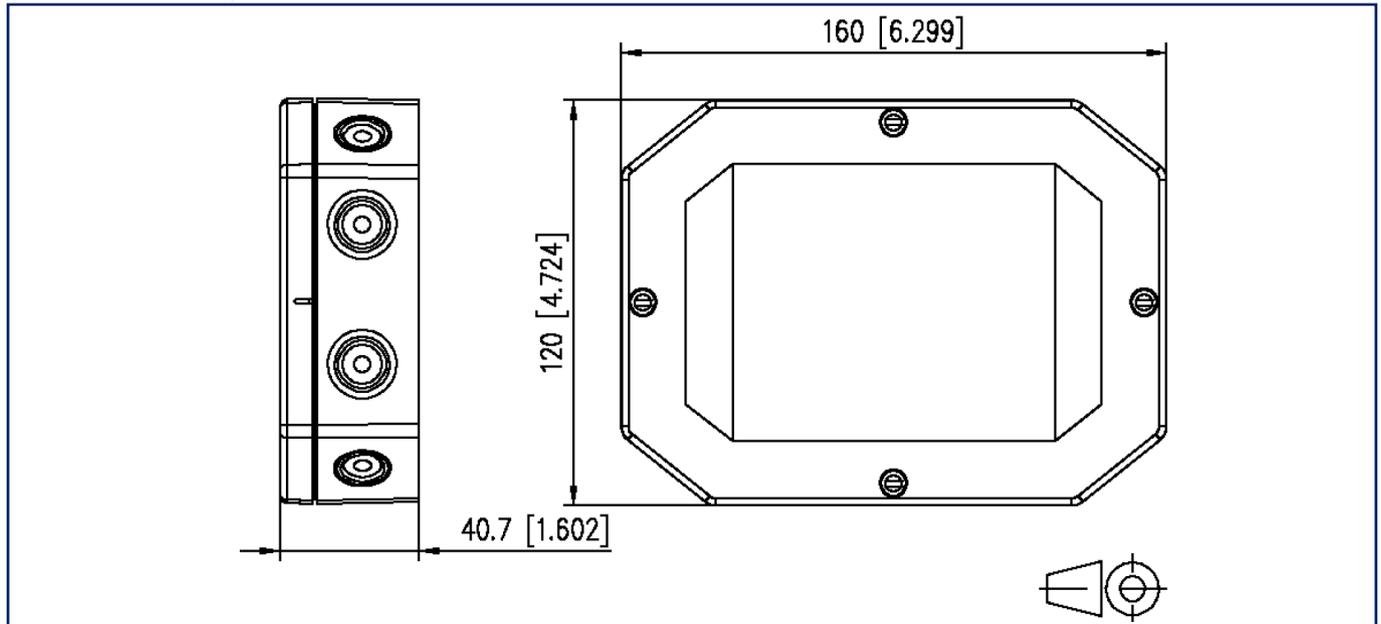
Wiring diagram

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Illustrations

Principle diagram