

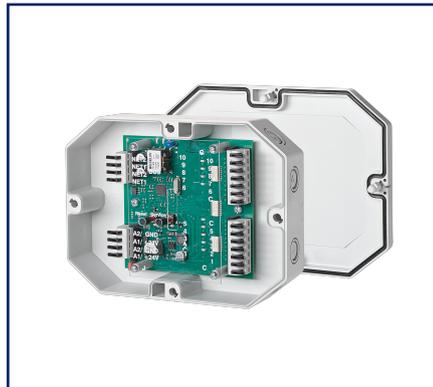
# Data sheet

## LF-DI10-IP65 LON

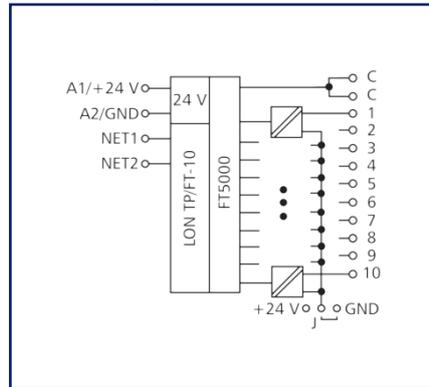
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**1108511319IP**  
**EAN 4250184135708**  
 2025/08/19  
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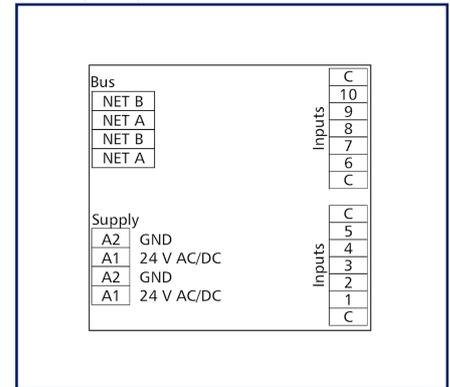
### Illustrations



Principle diagram



Wiring diagram



See enlarged drawings at the end of document

### Product specification

The LON module in an IP65 housing with 10 digital inputs was developed for decentralized switching tasks. It is suitable for detecting potential-free switch states, for example electrical limit switches on vent valves or auxiliary contacts of power contactors. The inputs can be used as contact or voltage inputs and scanned individually or simultaneously by SNVT network variables. Suitable for decentralized mounting in serial sub-distributor.

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**Technical Data**

<b>RS485 interface</b>	
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
<b>Supply</b>	
Operating voltage	24 V AC/DC +/- 10 % (SELV)
Power consumption	
Power consumption AC (max.)	63 mA
Power consumption DC (max.)	21 mA
Duty cycle relative	100 %
Recovery time	550 ms
<b>Inputs</b>	
Digital inputs	10
Voltage input	30 V AC/DC
High signal detection	> 8 V AC/DC
<b>Housing</b>	
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	300 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

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**Technical Data**

<b>Terminal blocks</b>	
Supply and bus	
Terminal block	4-pole
Solid wire (AWG)	max. 1.5 mm <sup>2</sup> / max. 16 AWG
Stranded wire (AWG)	max. 1 mm <sup>2</sup> / max. 18 AWG
Wire diameter	min. 0.3 mm max. 1.4 mm
Module connection	
Wire cross section solid	0.2 mm <sup>2</sup> - 1.5 mm <sup>2</sup> / AWG 28-18
Wire cross section multi	0.08 mm <sup>2</sup> - 0.75 mm <sup>2</sup> / AWG 28-18
Wire cross section with wire ferrule	0.08 mm <sup>2</sup> - 0.75 mm <sup>2</sup> / AWG 28-20
Stripping length (min.)	4 mm
Protection circuit	Polarity reversal protection for DC operating voltage Protection against interchanging power supply and bus
<b>Material</b>	
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat
<b>Protection category according to IEC 60529</b>	
Protection category - housing (acc. to IEC 60529)	IP65
Protection category - terminal blocks (acc. to IEC 60529)	IP20
<b>Climatic Data</b>	
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

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ETIM 7.0	EC000688
ETIM 8.0	EC000688
ETIM 9.0	EC000688
ETIM 10.0	EC000688

**Software and additional documents**

Software and documentation Further documentation is available for free download at [www.metz-connect.com](http://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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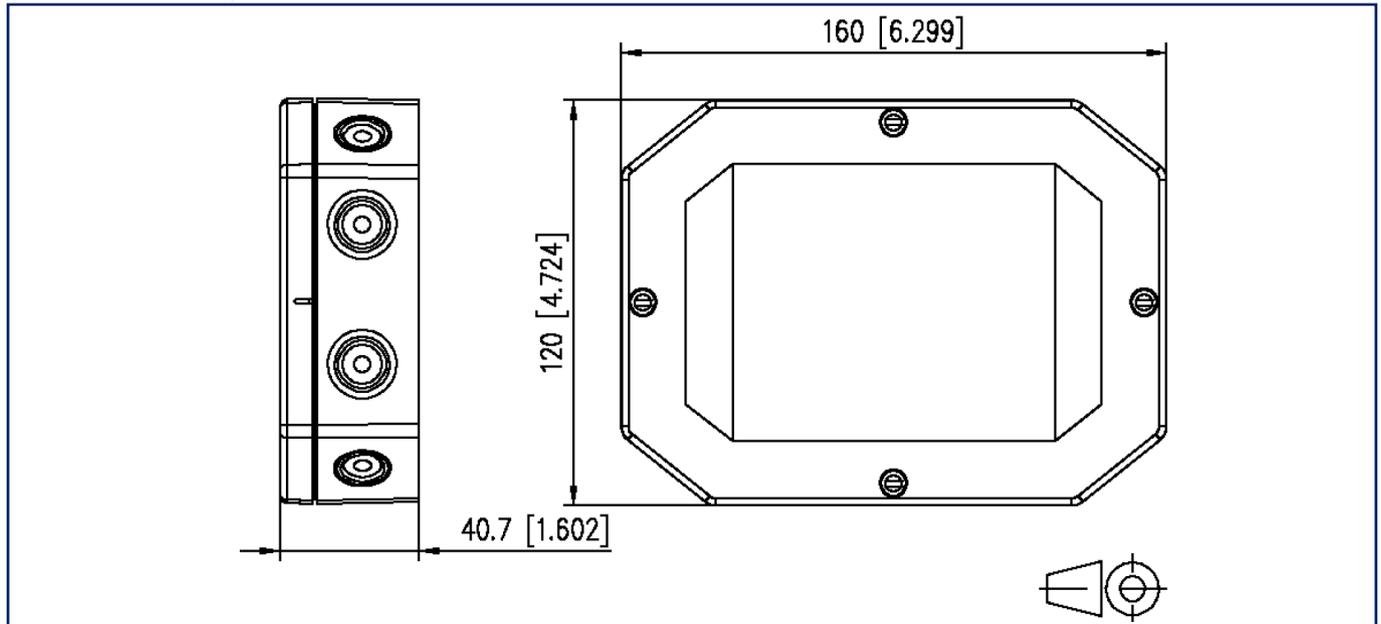
<b>P/N</b>	<b>Designation</b>
110368	TSH 35 Hutschienenhalter für IP65
110486	HUB DC
110561	Power supply NG4 24 V DC
11087913	LF-FAM LON
ASP0250404	SP025xxHDNC ASP025

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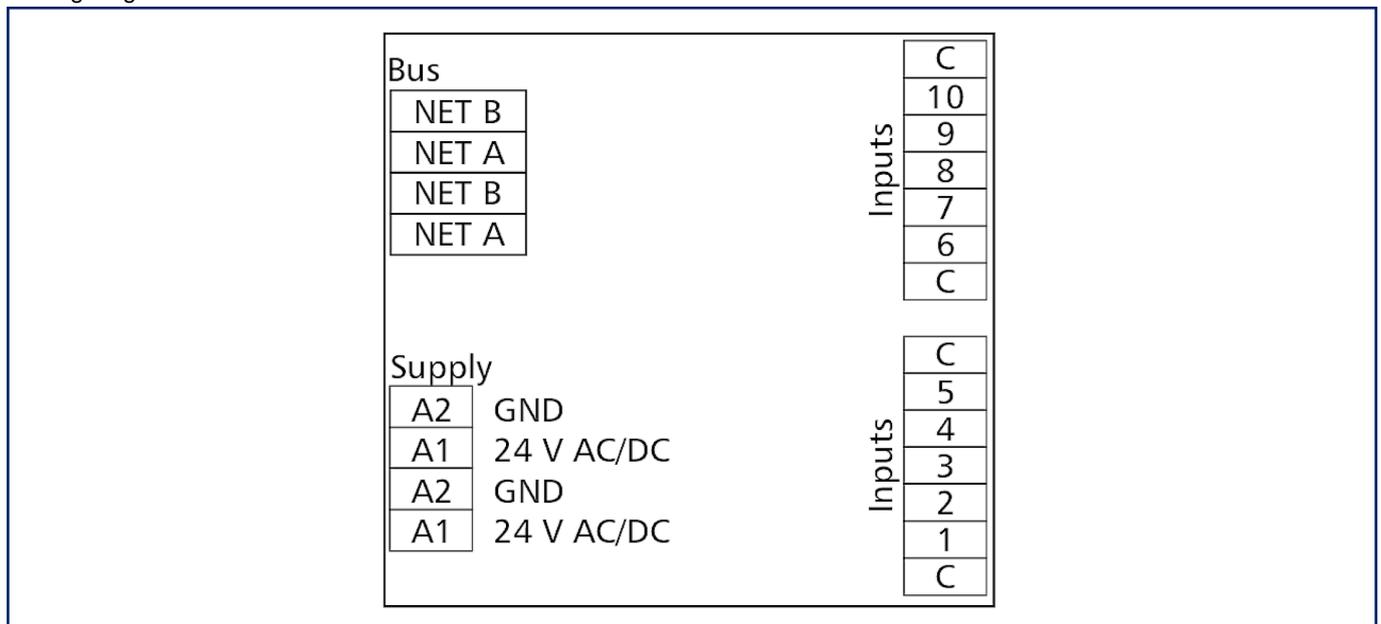
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**Illustrations**

Dimensional drawing



Wiring diagram



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**Illustrations**

Principle diagram

