

Data sheet

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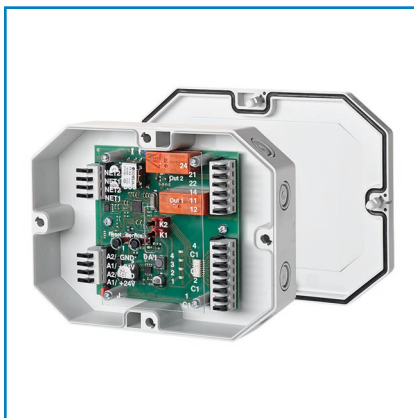
LF-DIO4/2-IP

Part number
1108551326IP

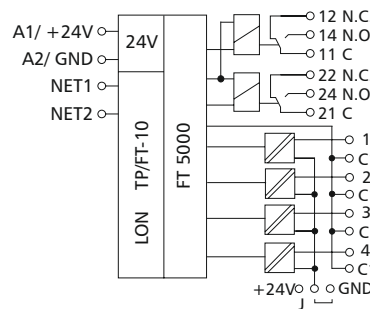
LON module with digital inputs and outputs

2016-07-19

Illustrations

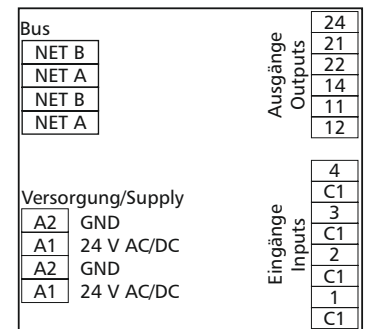


Principle diagram



Use copper conductors only

Wiring



Product description

The LON module in an IP65 housing with 4 digital inputs and 2 relay outputs was developed for decentralized switching tasks. It is suitable for accommodating, for example, light switches and window contacts in a room, switching two light strips or controlling louvers. It can also be used to control 2 motorized fire dampers. With strong inductive loads, we recommend protecting the relay contacts with an RC element.

The inputs can be used either as contact or voltage inputs. SNVT network variables switch and scan the inputs and outputs. The outputs have a manual control activated only in configured mode. In addition, an adjustable wipe function is integrated.

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Technical data

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	220 mA (AC) / 90 mA (DC)
Relative duty cycle	100 %
Recovery time	550 ms

Inputs

Inputs	4x digital
Voltage input	30 V AC/DC
High-signal	>8 V AC/DC

Outputs

Outputs	2x relay output
Output contact	2x changeover contact
Switching voltage	250 V AC
Continuous current max.	10 A per relay (80 A for 20 ms)
Total current over all contacts	max. 25 A
Contact fuse	max. 16 A
Mechanical endurance	30 x 10 ⁶ switching cycles
Electrical endurance	1 x 10 ⁴ switching cycles

General informations

Rated insulation voltage	230/400 V AC	
Overvoltage category	III	II
Pollution degree	2	2
Rated surge voltage	4 kV	2.5 kV
Type of insulation	basic insulation	reinforced insulation

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Technical data

Housing	
Dimensions WxHxD	6.299 x 1.602 x 4.724 in. (160 x 40.7 x 120 mm)
Weight	330 g
Mounting position	any
Mounting	directly on a flat surface 8 knock-out openings for M12 and M16 cable glands
Material	
Housing	ASA + polycarbonate
Terminal blocks	polyamide 6.6 V0
Cover plate	polycarbonate
Type of protection (IEC 60529)	
Housing	IP65
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 16 (1.5 mm ²)
Stranded wire	max. AWG 18 (1.0 mm ²)
Wire diameter	0.3 mm to max. 1.4 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	
Software description, mounting note, certificates	All additional documents are available for download at www.metz-connect.com



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Dimensional drawing

