

Data sheet

BMT-DIO4/2

BACnet module with digital inputs and outputs

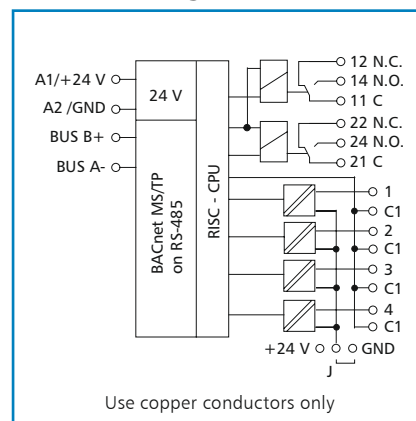
Part number
1108831326

2016-11-11

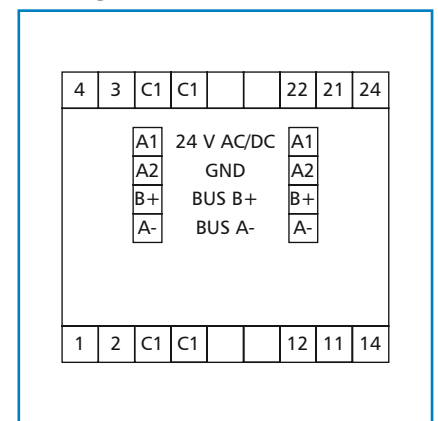
Illustrations



Principle diagram



Wiring



Product description

The BACnet MS/TP module with 4 digital inputs and 2 relay outputs with manual control 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 as contact or voltage inputs. The inputs and outputs can be switched and scanned by means of standard objects via a BACnet client. The module address and the bitrate are set by means of two address switches on the front.

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

Data sheet
BMT-DIO4/2
BACnet module with digital inputs and outputs

Page 2/4
Part number
1108831326
 2016-11-11

Technical data

Approvals		
C-UL Certification	Open Energy Management Equipment 34TZ	
BACnet interface		
Protocol	BACnet MS/TP	
Address range	00 to F9	
Transmission rate	9600 to 115200 Bit/s, factory setting 9600 Bit/s	
Cabling	RS485 two wire bus with potential equalization in bus or line topology terminate with 120 Ohm	
Supply		
Operating voltage	24 V AC/DC \pm 10 % (SELV)	
Current consumption	200 mA (AC) / 75 mA (DC)	
Relative duty cycle	100 %	
Inputs		
Digital inputs	4	
Voltage input	30 V DC	
High signal recognition	>7 V AC/DC	
Outputs		
Digital outputs	2	
Output contact	2 changeover contacts	
Switching voltage max.	250 V AC	
Continuous current	16 A per relay (80 A for 20 ms)	
Total current over all contacts	25 A	
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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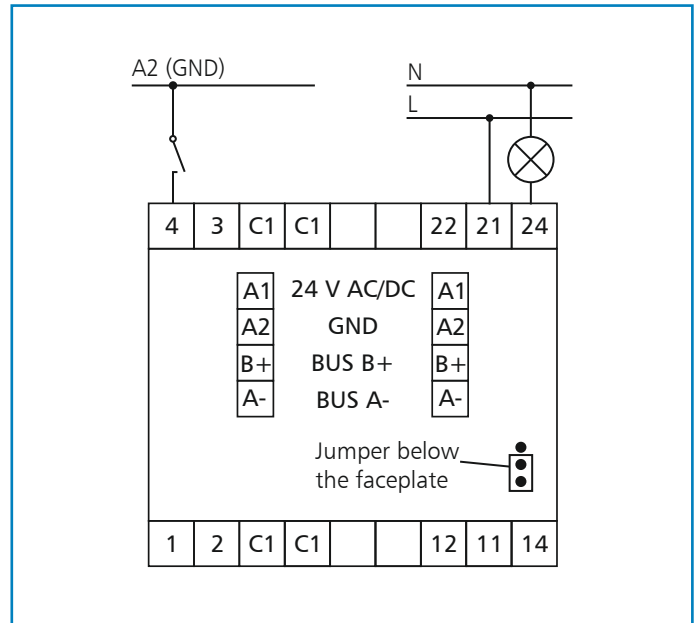
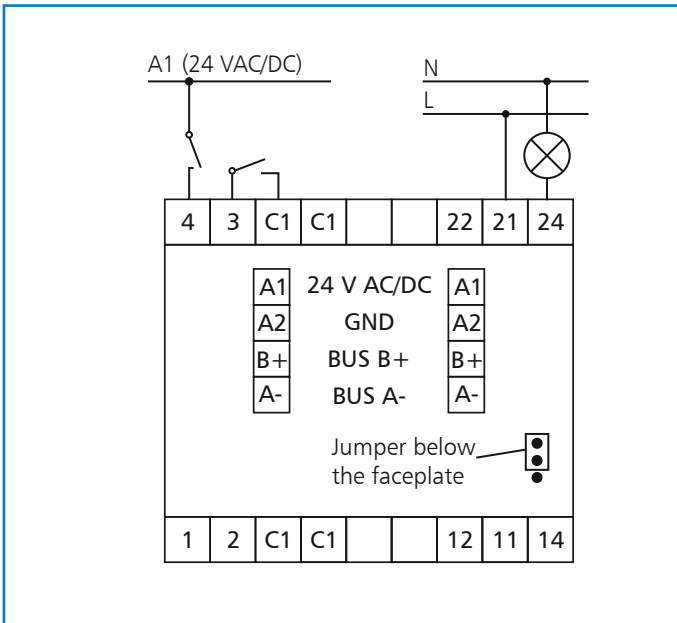
Page 3/4
Part number
1108831326
 2016-11-11

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Housing	
Dimensions WxHxD Depth including switches	1.969 x 2.728 x 2.362 in. (50 x 69.3 x 60 mm) 2.717 in. (69 mm)
Weight	126 g
Mounting position	any
Mounting	on TH35 rail per IEC 60715
Side-by-side mounting	Without space The maximum quantity of BACnet 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 Terminal blocks Cover	polyamide 6.6 V0 polyamide 6.6 V0 polycarbonate
Type of protection (IEC 60529) Housing Terminal blocks	IP40 IP20
Terminal blocks	
Supply and bus Terminal block Solid wire Stranded wire Wire diameter	4-pole max. AWG 16 (1.5 mm ²) max. AWG 18 (1.0 mm ²) 0.3 mm to max. 1.4 mm
Module connection, digital inputs and outputs Solid wire Stranded wire Wire diameter	max. AWG 12 (4 mm ²) max. AWG 14 (2.5 mm ²) 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	
Operating and bus activity	green LED
Error indication	red LED
Status of the inputs and outputs	yellow LEDs
Additional documents	
Software description, mounting note, certificates	All additional documents are available for download at www.metz-connect.com



Connection examples



Dimensional drawing

