C | Logline

# Data sheet

# BMT-DO4

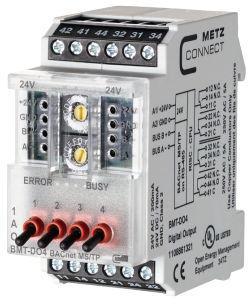
# BACnet module with digital outputs



**Part number**
**1108861321**

2016-07-18

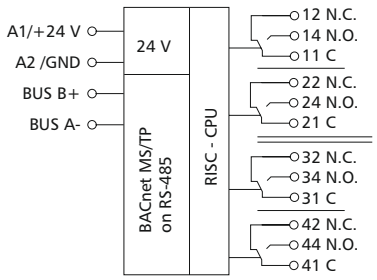
## Illustrations



c UL US LISTED

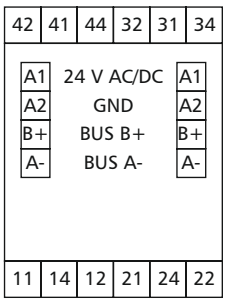
Open Energy Management Equipment 34TZ

### Principle diagram




Use copper conductors only

### Wiring




## Product description

The BACnet MS/TP module with 4 digital outputs was developed for decentralized switching tasks.

It is suitable for switching electrical components, such as motors, contactors, lamps, louvers, etc.

With strong inductive loads, we recommend protecting the relay contacts additionally with an RC element.

The module is provided with a manual control for manually switching the relays.

The outputs can be switched by means of standard objects via a BACnet client. The module is addressed and the bitrate is 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.

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Additional documentation see www.metz-connect.com

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RIA CONNECT BTR NETCOM MCQ TECH

# Data sheet
## BMT-DO4
## BACnet module with digital outputs


**Part number**
**1108861321**
2016-07-18

## 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<br>with potential equalization in bus or line topology<br>terminate with 120 Ohm | |
| **Supply** | | |
| Operating voltage | 24 V AC/DC ± 10 % (SELV) | |
| Current consumption | 200 mA (AC) / 70 mA (DC) | |
| Relative duty cycle | 100 % | |
| **Outputs** | | |
| Digital outputs | 4 | |
| Output contact | 4x changeover contact | |
| Switching voltage max. | 250 V AC | |
| Continuous current | 5 A per relay | |
| Total current over all contacts | 12 A | |
| Permissible switching frequency | 360 switching cycles per hour | |
| **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 | 1.378 x 2.728 x 2.362 in. (35 x 69.3 x 60 mm) |
| Depth including switches | 2.717 in. (69 mm) |
| Weight | 95 g |
| Mounting position | any |
| Mounting | on TH35 rail per IEC 60715 |
| Side-by-side mounting | Without space<br>The maximum quantity of Modbus 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 | polycarbonate |
| Type of protection (IEC 60529) | |
| Housing | IP40 |
| Terminal blocks | IP20 |
| **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, digital 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<br>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 outputs | yellow LEDs |
| **Additional documents** | |
| Software description, mounting note, certificates | All additional documents are available for download at www.metz-connect.com |

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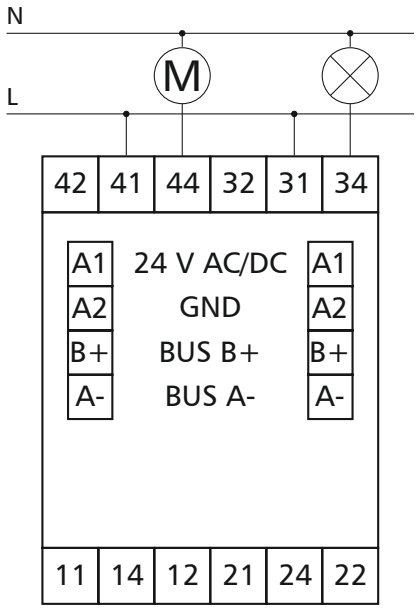
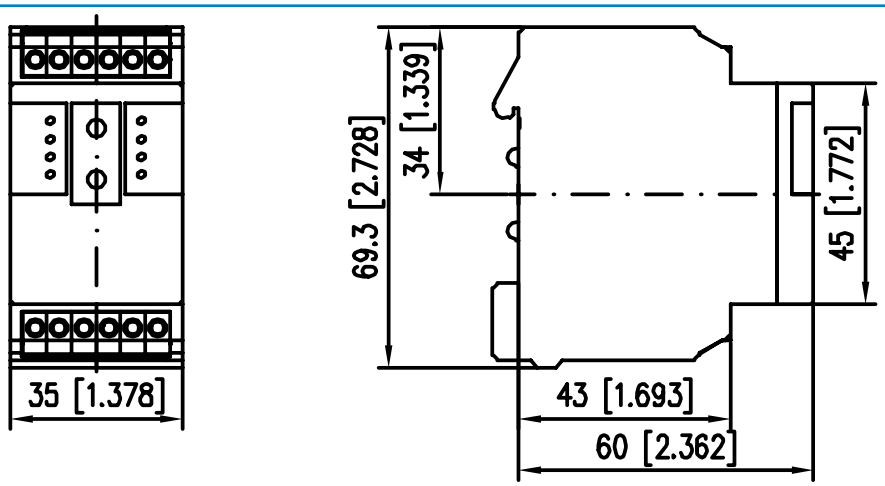
## BMT-DO4
## BACnet module with digital outputs


**Part number**
**1108861321**
2016-11-14

## Connection examples




## Dimensional drawing

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