

# Data sheet

## BMT-F-SI4 BACnet MS/TP

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P/N

1108891370

EAN 4251394620800

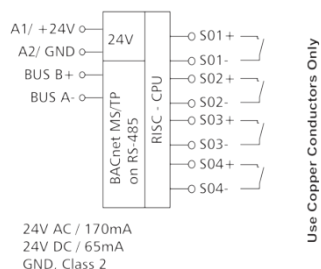
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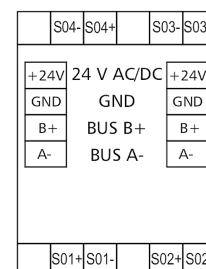
### Illustrations



Principle diagram



Wiring diagram



See enlarged drawings at the end of document

### Product specification

The BACnet MS/TP module with 4 S0 inputs according to DIN EN 62053-31 class A was developed for decentralized switching tasks. It is suitable, among other things, for counting S0 counter pulses. This allows very good integration of the module into an energy controlling system. In case of a power failure, the last counter readings are saved. The inputs can be scanned by means of standard objects via a BACnet client. When using the Accumulator Object, pulses up to 50 Hz can be counted, when using the PulseConverter object, pulses up to 500 Hz can be counted. Module address and bit rate are set with two rotary switches on the front. Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.

- Connection with spring clamp terminal blocks (push-in)



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### Technical Data

#### Approvals



Open Energy Management Equipment 34TZ



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#### RS485 interface

|                                   |                                                                                                  |
|-----------------------------------|--------------------------------------------------------------------------------------------------|
| Protocol                          | BACnet MS/TP                                                                                     |
| Address range                     | 00 - F9                                                                                          |
| Bus interface                     | RS485 two wire bus with potential equalization in bus or line topology<br>terminate with 120 Ohm |
| Transmission parameters           |                                                                                                  |
| Transmission rate                 | min. 9600 Bit/s (Bd)<br>max. 115200 Bit/s (Bd)                                                   |
| Transmission rate default setting | 9600 Bit/s (Bd)                                                                                  |
| Parity                            | None                                                                                             |
| Stopbits                          | 1                                                                                                |

#### Supply

|                             |                            |
|-----------------------------|----------------------------|
| Operating voltage           | 24 V AC/DC +/- 10 % (SELV) |
| Power consumption           |                            |
| Power consumption AC (max.) | 170 mA                     |
| Power consumption DC (max.) | 65 mA                      |
| Duty cycle relative         | 100 %                      |

#### Inputs

|                                           |   |
|-------------------------------------------|---|
| S0 inputs acc. to DIN EN 62053-31 Class A | 4 |
|-------------------------------------------|---|

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### Housing

#### Dimensions

|                       |                                                                                                                                                                                                                                                                                                |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimension (W x H x D) | 35 mm x 69.3 mm x 60 mm                                                                                                                                                                                                                                                                        |
| Dimension (W x H x D) | 1.378 in. x 2.728 in. x 2.362 in.                                                                                                                                                                                                                                                              |
| Weight                | 83 g                                                                                                                                                                                                                                                                                           |
| Mounting style        | Standard rail TH35                                                                                                                                                                                                                                                                             |
| Mounting position     | any                                                                                                                                                                                                                                                                                            |
| Apposition            | 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, without distance |
| Connection type       | Spring clamp terminal blocks                                                                                                                                                                                                                                                                   |
| Indicator             | green, red and yellow LED                                                                                                                                                                                                                                                                      |

### Terminal blocks

#### 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<br>max. 1.4 mm             |

#### Module connection

|                                      |                                                                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Wire cross section solid             | 0.2 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 24-14                                                          |
| Wire cross section multi             | 0.25 mm <sup>2</sup> - 2.5 mm <sup>2</sup> / AWG 24-12                                                         |
| Wire cross section with wire ferrule | 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup> / AWG 24-16                                                         |
| Stripping length (min.)              | 8 mm                                                                                                           |
| Protection circuit                   | Polarity reversal protection for DC operating voltage<br>Protection against interchanging power supply and bus |

### Material

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



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#### Protection category according to IEC 60529

|                                                           |      |
|-----------------------------------------------------------|------|
| Protection category - housing (acc. to IEC 60529)         | IP40 |
| 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  | 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 <a href="http://www.metz-connect.com">www.metz-connect.com</a> |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|

#### 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.



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### Accessories

| P/N      | Designation                |
|----------|----------------------------|
| 110369   | Terminal block Type 259    |
| 11056170 | Power supply NG4-F 24 V DC |
| 31135104 | Typ 135 RIACON 135_3.5     |



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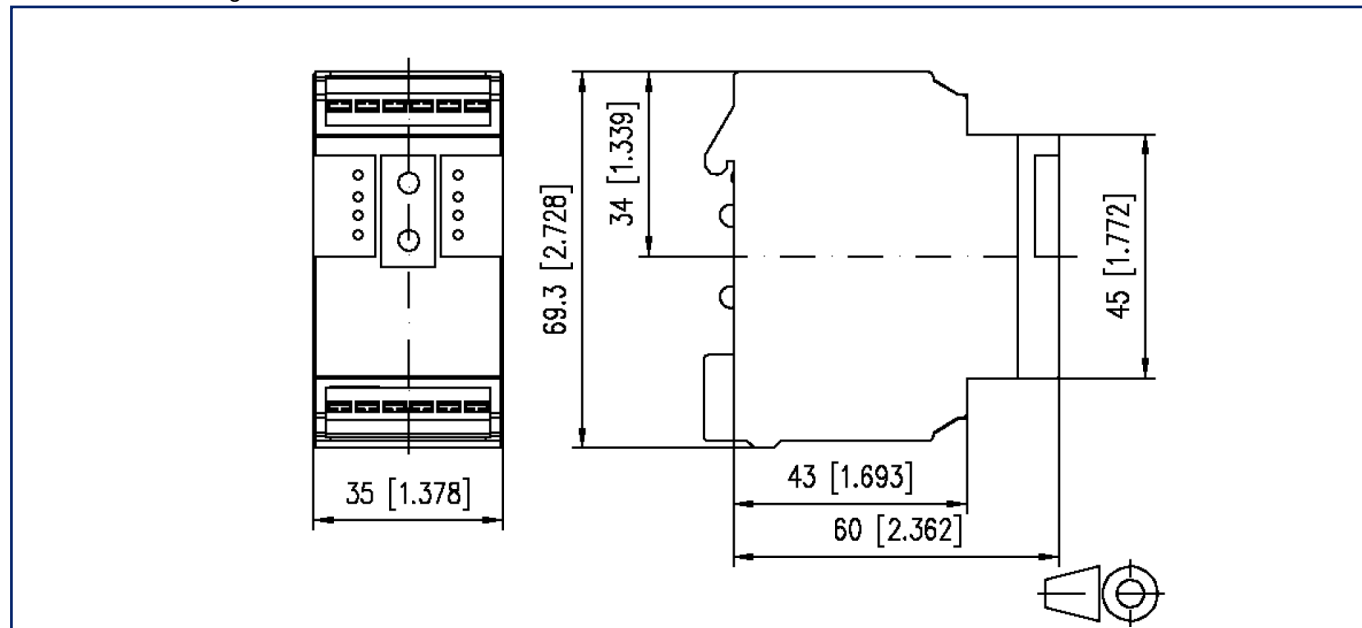
### Accessories from

| P/N        | Designation                   |
|------------|-------------------------------|
| 11088001   | BMT-RTR BACnet-Router         |
| 1108800170 | BMT-F-RTR BACnet-Router       |
| 11088101   | BMT-RTR/SC BACnet/SC Router   |
| 1108810170 | BMT-F-RTR/SC BACnet/SC Router |

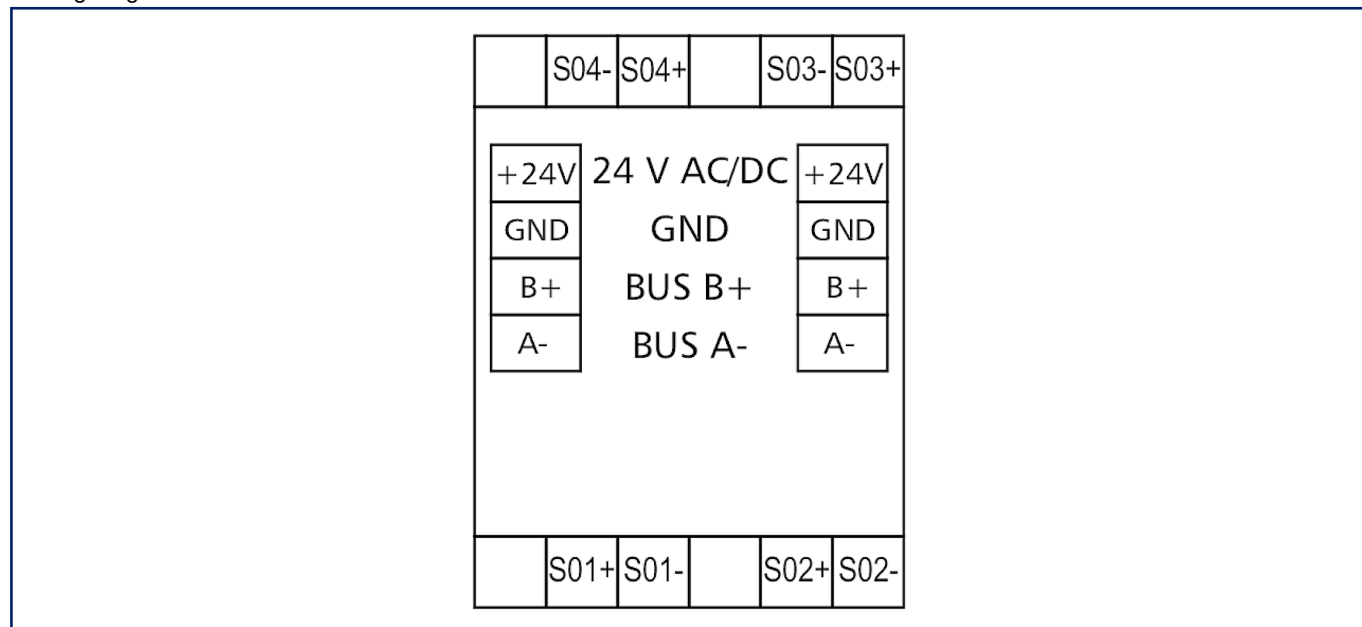


## Illustrations

### Dimensional drawing



### Wiring diagram



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