C | Logline

METZ CONNECT
We realize ideas

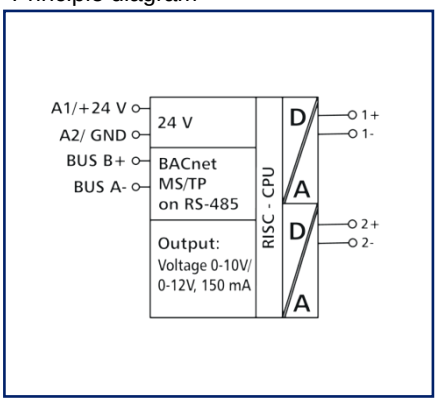
Data sheet

110887130370 BMT-F-AOP2 BACnet MS/TP

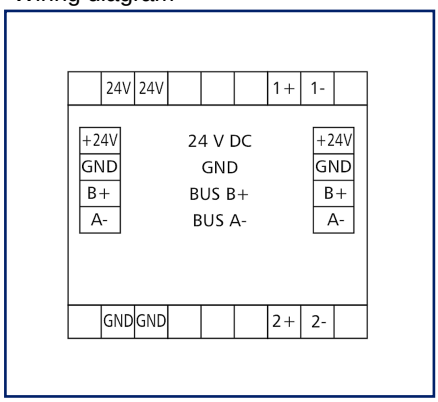
P/N 110887130370
EAN 4251394660769
2023/09/08
Version: E

Illustrations

Principle diagram



Wiring diagram



See enlarged drawings at the end of document

Product specification

The BACnet MS/TP module with 2 analog voltage outputs was developed for decentralized switching tasks. It is suitable as encoder for control variables, for example for electrical vent and mixing valves, valve positions or electronic ballasts for lighting and other applications. The outputs can be output by means of standard objects via a BACnet client. Each output can be set for automatic or manual operation by means of 2 potentiometers at the front. In addition, the operating mode can be set via software (output voltage 0-10 V or 0-12 V). The module is addressed and the baud rate 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.

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

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

METZ CONNECT GmbH | Im Tal 2 | 78176 Blumberg | Germany
Phone +49 7702 533-0 | Fax +49 7702 533-433

Data sheet

110887130370 BMT-F-AOP2 BACnet MS/TP

P/N
110887130370
EAN 4251394660769
2023/09/08
Version: E

Technical Data

Approvals	
	BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BI.
RS485 interface	
Protocol	BACnet MS/TP
Address range	00 - F9
Bus interface	RS485 two wire bus with potential equalization in bus or line topology, terminate with 120 Ohm
Transmission parameters	
Transmission rate	min. 9600 Bit/s (Bd) - max. 115200 Bit/s (Bd)
Transmission rate default setting	9600 Bit/s (Bd)
Parity	None
Stopbits	1
Supply	
Operating voltage	24 V DC
Power consumption	
Power consumption DC (max.)	250 mA
Duty cycle relative	100 %
Outputs	
Analog outputs	2, galvanically isolated
Voltage range	0 V - 10 V DC / 0 V - 12 V DC
Resolution voltage output	0.3125 mV / digit
Continuous current voltage output	150 mA at 10 V DC / 12 V DC
Housing	
Dimensions	
Dimension (W x H x D)	50 mm x 69.3 mm x 60 mm
Dimension (W x H x D)	1.969 in. x 2.728 in. x 2.362 in.
Total depth with switch/plug	69 mm
Weight	119 g
Mounting style	Standard rail TH35
Mounting position	any

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet

110887130370 BMT-F-AOP2 BACnet MS/TP

P/N 110887130370

EAN 4251394660769

2023/09/08

Version: E

Technical Data

Housing	
Apposition	The maximum quantity of BACnet modules connected side-by-side is limited to 8 or to a maximum power consumption of 2 Amps (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 and red LED
Terminal blocks	
Supply and bus	
Terminal block	4-pole, pluggable, on front of housing
Solid wire (AWG)	max. 1.5 mm² / max. 16 AWG
Stranded wire (AWG)	max. 1 mm² / max. 18 AWG
Wire diameter	max. 1.4 mm - min. 0.3 mm
Module connection	
Wire cross section solid	0.2 mm² - 2.5 mm² / AWG 24-14
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 24-12
Wire cross section with wire ferrule	0.25 mm² - 2.5 mm² / AWG 22-12
Stripping length (min.)	8 mm
Protection circuit	Polarity reversal protection for DC operating voltage, Protection against interchanging power supply and bus
Material	
Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat
Protection category according to IEC 60529	
Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet

110887130370 BMT-F-AOP2 BACnet MS/TP

P/N 110887130370
EAN 4251394660769
2023/09/08
Version: E

Technical Data

Temperature range	
Operating	
Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Storage	
Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F
Classifications	
ETIM 7.0	EC001096
ETIM 8.0	EC001096
ETIM 9.0	EC001096
Software and additional documents	
Software and documentation	Further documentation is available for free download at www.metz-connect.com

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet

110887130370 BMT-F-AOP2 BACnet MS/TP

P/N
110887130370
EAN 4251394660769
2023/09/08
Version: E

Accessories

P/N	Designation
110369	Terminal block Type 259
110486	HUB DC
110561	Power supply NG4 24 V DC
31135104	Typ 135 RIACON 135_3.5

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet
110887130370 BMT-F-AOP2 BACnet MS/TP

P/N
110887130370
EAN 4251394660769
2023/09/08
Version: E

Accessories from

P/N	Designation
11088001	BMT-RTR BACnet-Router
1108800170	BMT-F-RTR BACnet-Router

© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

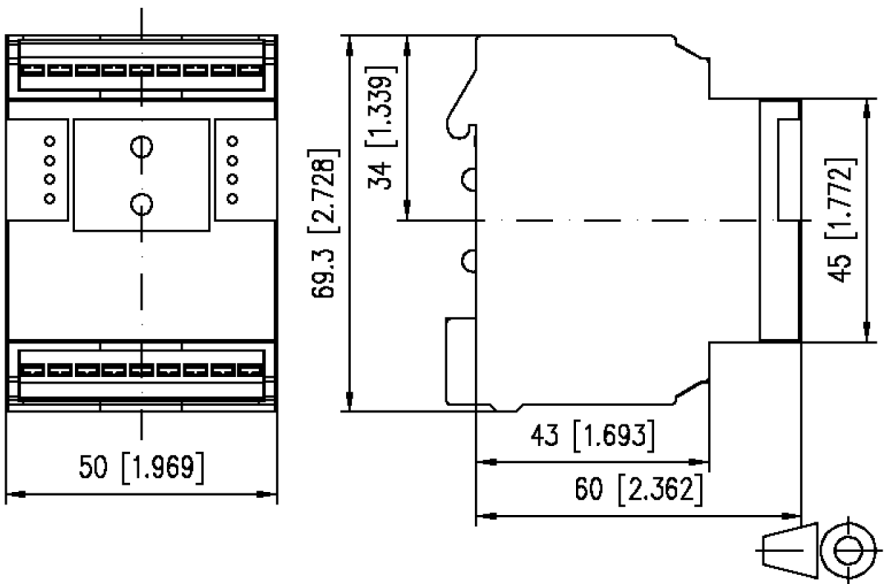
Data sheet

110887130370 BMT-F-AOP2 BACnet MS/TP

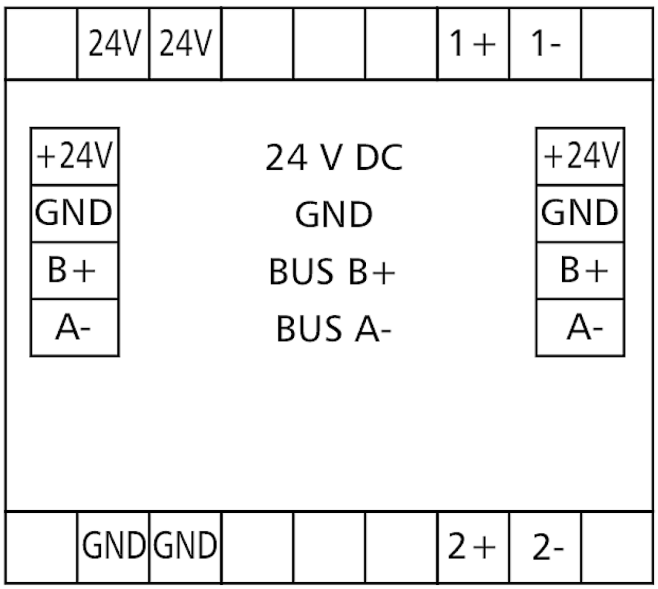
P/N
110887130370
EAN 4251394660769
2023/09/08
Version: E

Illustrations

Dimensional drawing



Wiring diagram



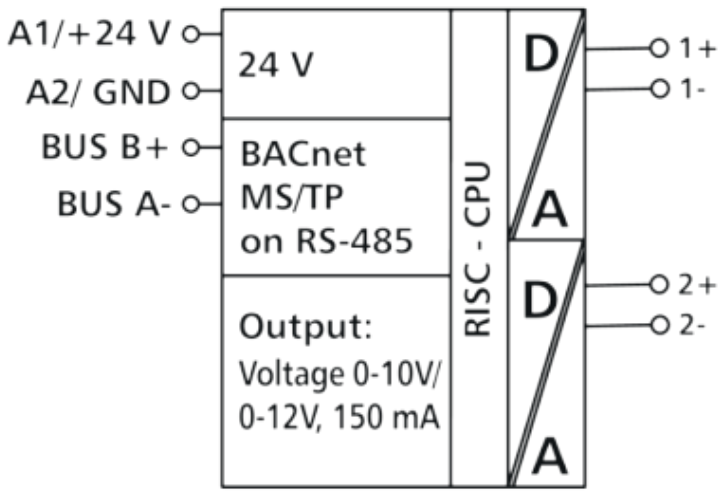
© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!

Data sheet
110887130370 BMT-F-AOP2 BACnet MS/TP

P/N
110887130370
EAN 4251394660769
2023/09/08
Version: E

Illustrations

Principle diagram



© 2023 METZ CONNECT - Technische Änderungen vorbehalten! Subject to modifications! Sous réserve de modifications techniques!