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Page 1/6

P/N 11089313

EAN 4251394600901

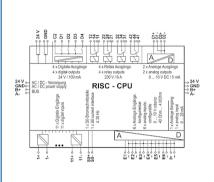
2020/12/02 Version: A

Data sheet BMT-Multi I/O BACnet MS/TP

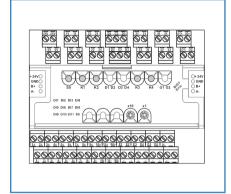
Illustrations



Principle diagram



Wiring





See enlarged drawings at the end of document

Product specification

The BACnet module BMT-Multi I/0 is a compact and rapidly to install solution to connect digital and analog signals from the actor and sensor level directly to a control unit in building automation via BACnet MS/TP protocol. 29 I/Os, some of them are configurable, are available for different tasks. The inputs and outputs can be controlled and scanned by standard objects via a BACnet Client. Module address and bit rate are set with two rotary switches on the front or by software. The relays K1 to K4 are equipped with a manual control and allow manual intervention. In this case it is necessary to protect the relay contacts by appropriate load-dependent measures. Suitable for decentralized mounting on DIN TH35 rail according to IEC 60715 in electrical distribution cabinets.







C | Logline

Data sheet BMT-Multi I/O BACnet MS/TP

We realize ideas

Page 2/6

P/N 11089313

EAN 4251394600901

2020/12/02 Version: A

Technical Data

Approvals



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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 AC/DC +/- 10 % (SELV)
Power consumption	
Power consumption AC (max.)	220 mA
Power consumption DC (max.)	110 mA
Duty cycle relative	100 %
Inputs	
Analog inputs	7
Current input	1
Resistance / temperature / voltage input	6, individually configurable
Digital inputs	11 x optocoupler, galvanically isolated
S0 inputs acc. to DIN EN 62053-31 Class A	1
High signal detection	> 7 V AC/DC
Voltage range	0 V - 10 V DC
Current range	0 (4) - 20 mA DC (adjustable)
Resistance range	40 Ohm - 4 MOhm
Resolution	15 Bit (current), 15 Bit (resistance), 15 Bit (voltage)
Error	(< 12 kOhm) 0,1%, (> 12 kOhm) 1% (resistance), 10 mV (voltage), 20 µA (current)
Temperature range (-50 °C to 150 °C)	PT100, PT500, PT1000, NI1000-TC5000, NI1000-TC6180, BALCO500, KTY81_110, KTY81_210, NTC1k8-T, NTC5k-T, NTC10k-T, NTC20k-T
Temperature range (-40 °C to 120 °C)	LM235Z sensor







Data sheet BMT-Multi I/O BACnet MS/TP

We realize ideas

P/N 11089313

EAN 4251394600901

2020/12/02 Version: A

Page 3/6

	Version:
Technical Data	
Outputs	
Analog outputs	2, potential-free
Digital outputs	8
Relay output	4 changeover contacts
Semiconductor output	4
Switching voltage	24 V AC/DC (semiconductor), 250 V AC (relay)
Voltage range	0 V - 10 V DC
Continuous current	5 mA at 10 V DC (analog), 100 mA (semiconductor)
Resolution	10 mV / digit
Insulation coil - contact set	
Nominal voltage of the power supply system	230 / 400 V AC
Overvoltage category	III II
Pollution degree	2 2
Rated test voltage	4 kV 4 kV
Type of insulation	basic insulation reinforced insulation
Housing	
Dimensions	
Dimension (W x H x D)	125 mm x 93 mm x 60.81 mm
Dimension (W x H x D)	4.921 in. x 3.661 in. x 2.394 in.
Weight	385 g
Mounting style	Standard rail TH35
Built-in	any
Apposition	without distance
Connection type	Screw type terminal blocks
Indicator	green, red and yellow LED
Terminal blocks	
Supply and bus	
Terminal block	4-pole
Solid wire	max. 1.5 mm ² / max. 16 AWG
Stranded wire	max. 1 mm² / max. 18 AWG
Wire diameter	min. 0.3 mm - max. 1.4 mm
Module connection	
Wire cross section solid	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section multi	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire cross section with wire ferrule	0.34 mm ² - 2.5 mm ² / AWG 22-12
Wire diameter	min. 0.66 mm - max. 1.78 mm







We realize ideas

C | Logline

Data sheet
BMT-Multi I/O BACnet MS/TP

Page 4/6

P/N 11089313

EAN 4251394600901

2020/12/02 Version: A

Tachwinel Date	version
Technical Data	
Terminal blocks	
Module connection	
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm
Protective circuit	Polarity reversal protection for DC operating voltage, Protection against interchanging power supply and bus
Material	
Material - Housing	Polycarbonat + Polyamid
Color	gray/black
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polycarbonat
REACH - substance (SVHC)	Lead / 7439-92-1
Protection category according to IEC 60529	
Protection category - housing (acc. to IEC 60529)	IP20
Protection category - terminal blocks (acc. to IEC 60529)	IP20
Temperature range	
Operating	
Temperature - Operating °C	-5 °C - 55 °C
Temperature - Operating °F	23 °F - 131 °F
Storage	
Temperature - Storage °C	-25 °C - 70 °C
Temperature - Storage °F	-13 °F - 158 °F
Classifications	
ETIM 7.0	EC001584
Software and additional documents	
Logiciels et documentation	Further documentation is available for free download at www.mcconnect.com







Data sheet
BMT-Multi I/O BACnet MS/TP

We realize ideas

Page 5/6

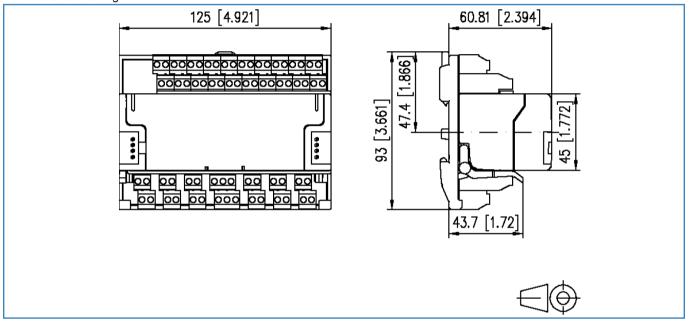
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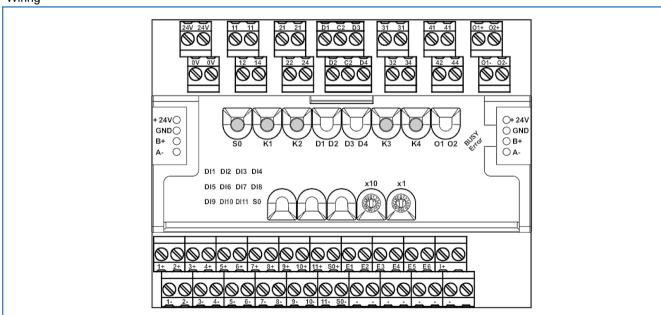
2020/12/02 Version: A

Illustrations

Dimensional drawing



Wiring









We realize ideas

Data sheet
BMT-Multi I/O BACnet MS/TP

Page 6/6

P/N 11089313

EAN 4251394600901

2020/12/02 Version: A

Illustrations

Principle diagram

