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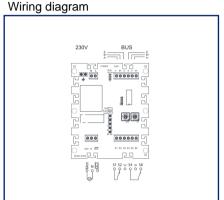
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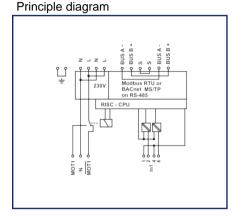
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Data sheet MB-DIO2/1-IP Modbus/BACnet 230 V

Illustrations









See enlarged drawings at the end of document

Product specification

The MB-DIO2/1-IP 230 V module in IP65 housing with 2 digital inputs and 1 relay output is developed for decentralized switching tasks. Suitable, for example, to accommodate light switches and window contacts in a room, and to switch light strips or to use as blinds control. Motor-driven actuators (e.g. ventilation or fire dampers) can be controlled. Depending on the operating mode, the module can be switched or requested with Modbus standard registers or with BACnet objects. For manual control, the relay outputs are equipped with switches. The settings of the operating mode, bit rate and parity are made via two rotary switches. Operating mode, bit rate and parity also adjustable via software.

- · for the control of an actuator, e.g. fire damper
- · Connection options for actuators with open connection lines with pluggable push-in technology
- Supply voltage is also switching voltage
- Relay output suitable for inrush current 65 A < 20 ms (NO), continuous current 6A
- generous space for installation no additional distribution box required







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Technical Data

Approvals



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RS485 interface	
Protocol	Modbus RTU / BACnet MS/TP

Address range	00 - EF
Bus interface	RS485 two wire bus with potential equalization in bus or line topology, terminate with 120 Ohm
Transmission parameters	
Transmission rate	min. 1200 Bit/s (Bd) - max. 115200 Bit/s (Bd)
Transmission rate default setting	19200 Bit/s (Bd)
Parity	None, Even (default setting), Odd
Stopbits	1 (default setting), 2
Supply	
Operating voltage	230 V AC -10% +10%
Duty cycle relative	100 %
Inputs	
Digital inputs	2
Outputs	
Digital outputs	1
Relay output	2 changeover contacts
Switching voltage relay output (max.)	230 V AC
Continuous current relay output	6 A / relay
Switch-on current relay output (max.)	65 A < 20 ms (NO)
Total current across all outputs	6 A
Mechanical life	10x10 ⁶ switching cycles
Electrical life	10x10 ⁴ switching cycles





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C | Logline

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Version
230 V AC = Operating voltage
2 2
4 kV 2.5 kV
basic insulation reinforced insulation
125 mm x 75 mm x 175 mm
4.921 in. x 2.953 in. x 6.89 in.
536.3 g
directly on a flat base, knock-out openings for screw connections 4 x M16/25 + 8 x M12/20
any
green, red and yellow LED
Pluggable spring clamp terminal block
6-pole
3-pole
6-pole
max. 12 AWG
max. 2.5 mm ²
max. 12 AWG
max. 2.5 mm
0.2 mm ² - 2.5 mm ² / AWG 22-12
0.2 mm ² - 2.5 mm ² / AWG 22-12
0.2 mm ² - 2.5 mm ² / AWG 22-12
10 mm
screw type terminal block
2x 1-pole
0.2 mm ² - 1.5 mm ² / AWG 22-16
0.2 mm ² - 1.5 mm ² / AWG 22-18
0.2 mm ² - 1.5 mm ² / AWG 22-18
0.5 Nm







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Technical Data	
Terminal blocks	
Stripping length (min.)	6 mm
Material	
Material - Housing	Polycarbonat
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Protection category according to IEC 60529	
Protection category - housing (acc. to IEC 60529)	IP66 / IP67 (without screw fittings)
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	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F
Classifications	
ETIM 7.0	EC001584
ETIM 8.0	EC001584
ETIM 9.0	EC001584
Software and additional documents	
Software and documentation	Further documentation is available for free download at www.metzconnect.com







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Accessories

P/N	Designation	
11083001	MR-GW Modbus RTU / Modbus TCP Gateway	
1108300170	MR-F-GW Modbus RTU / Modbus TCP Gateway	
11088001	BMT-RTR BACnet-Router	
1108800170	BMT-F-RTR BACnet-Router	





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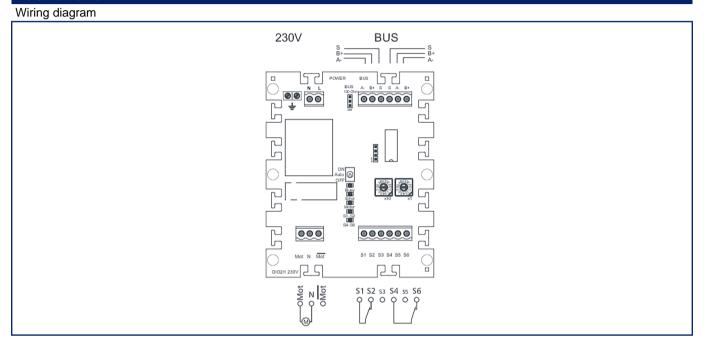
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Principle diagram

