

DATASHEET

Digital/Discrete Module BM-D100-144S (1-Pack) BM-D100-144D (2-Pack)

The digital I/O modules provide four inputs and four solid state outputs. The I/O modules offer 2500 V r.m.s. isolation, with a wide operating temperature range and Class I Division 2 hazardous location rating, making them ideal for demanding industrial installations.

Connect them to the wireless I/O radios for point-to-point wire replacement applications, or to the RS485 I/O Extension module to add I/O to a Modbus network.



Features

- ◆ *Easy to use:* No software configuration needed
- ◆ *Easy to install:* Mounts onto a 35 mm DIN rail without any tools
- ◆ *Digital Inputs:* 4
- ◆ *Digital Outputs:* 4
- ◆ *Isolation Voltage:* 2500 V r.m.s.
- ◆ *Input Voltage Range:* 3 to 30 VDC
- ◆ *Failsafe Modes:* On, Off, or Last Known Value (Default)

Specifications

Hardware & System

Specification	Description
DIN Rail Mounting Compatibility	35 mm x 7.5 mm DIN Rail
I/O Module Slave ID Selection	16-Position Rotary Switch
Built-In Mounting Hardware	Spring-loaded clip-on system
Wire Gauge	Solid / Stranded (AWG) 28-12 gauge
Wire Rating	UL: 300 V RMS, 80 °C and 300 V, 105 °C CSA: 300 V RMS, 105 °C
Warranty	2-Year limited

Digital/Discrete

Specification	Description
Number of Inputs	4
Number of Outputs	4
Isolation Voltage	2500 V r.m.s.
Input Voltage Range	3 to 30 VDC
Input Voltage Threshold	1 Signal ("H"): > 2.3 VDC 0 Signal ("L"): < 1.1 VDC
Output Rating	1 A Sink Current for Open-Drain Outputs / NPN
FailSafe Modes	On, Off, or Last Known Value (Default)

Physical

Specification	Description
Green LEDs	Line-Driven Input Indicators
Red LEDs	Output Indicators
Power Consumption	Typical: 18 mA / Max: 26 mA @12 VDC
Packaging Dimensions (WxHxD)	4.8 x 5.1 x 2.8 in / 123 x 129 x 72 mm
Net Dimensions	0.7 x 3.9 x 4.5 in / 17.5 x 99 x 114 mm
Packaging Weight	Single: 0.5 lbs / 227 g Double: 0.8 lbs / 363 g
Net Weight (Single)	0.3 lbs / 136 g

Safety & Compliance

Specification	Description
Operational Temperature	-40 °C to 80 °C / -40 °F to 176 °F
Storage Temperature	-20 °C to 85 °C / -4 °F to 185 °F
Humidity	0 to 99 %, Non-condensing
Degree of Protection / Housing Type	IP20 / Plastic
Hazardous Locations Classifications	UL Class I; Division 2 (Zone 2), Pending



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Ordering Information

To order this product, please use the following:

Digital/Discrete Module

BM-D100-144S (1-Pack)

BM-D100-144D (2-Pack)

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