

# BX-DM1E-18ER3-D Cut Sheet



BRX Do-more PLC, 12-24 VDC required, Ethernet and serial ports, microSD card slot, Discrete Input: 10-point, AC/DC, Analog Input: 1-channel, current/voltage, Discrete Output: 8-point, relay, Analog Output: 1-channel, current/voltage.

For complete product information, please see this item on our store at the following link:



<https://www.automationdirect.com/pn/BX-DM1E-18ER3-D>

## Technical Specifications

Brand	BRX Do-more
Item	PLC
Total Memory	192k words
Ladder Memory	64k words
User Data Memory	128k words
Removable Media Type	MicroSD card slot
Programming Language	Ladder
Programming Software	Do-more Designer programming software v2.0 or later
Communication Port and Connection Type(s)	<ul style="list-style-type: none"><li>• (1) Ethernet 10/100Base-T (RJ45)</li><li>• (1) RS-232/RS-485 (3-pin terminal)</li></ul>
Port Protocol(s)	<ul style="list-style-type: none"><li>• MQTT Client</li><li>• MQTTs Client</li><li>• FTP Client</li><li>• Do-more protocol</li><li>• Modbus RTU Master/Slave</li><li>• Modbus TCP</li><li>• TCP/IP</li><li>• EtherNet/IP explicit messaging scanner/adaptor</li><li>• EtherNet/IP implicit messaging scanner/adaptor</li><li>• Ethernet remote I/O</li><li>• K-sequence Slave</li><li>• webserver (non-secure HTTP)</li><li>• programming and monitoring</li></ul>
Port Speed(s)	<ul style="list-style-type: none"><li>• 10/100 Mbps</li><li>• up to 115.2k baud</li></ul>
Real Time Clock/Calendar	Yes
Retentive Memory	Yes
Battery Backup	Yes
Maximum Expansion Modules Allowed	8
External Power Requirement	12-24 VDC
Number of Discrete Input Points	10
Nominal Input Voltage	12-24 VAC/VDC
Voltage Type	AC/DC
Discrete Input Type	Sinking/sourcing

Number of Isolated Discrete Input Commons	2
Number of Points per Discrete Input Common	5
Frequency Response	250 kHz
Number of Discrete Output Points	8
Nominal Output Voltage	12-48 VDC/24-240 VAC
Discrete Output Type	Relay
Relay Configuration	(8) Form A (SPST) relays
Load Current	2A/point
Number of Isolated Discrete Output Commons	2
Number of Points per Discrete Output Common	4
Number of Analog Input Channels	1
Analog Input Signal Type	Current/voltage
Number of Non-Isolated Analog Input Commons	1
Number of Points per Analog Input Common	1
Input Resolution	16-bit
Input Current Signal Range	Input current signal range(s) of 4-20 mA, +/- 20 mA
Input Voltage Signal Range	Input voltage signal range(s) of 0-5 VDC, 0-10 VDC, +/- 5 VDC, +/- 10 VDC
Number of Analog Output Channels	1
Analog Output Signal Type	Current/voltage
Number of Non-Isolated Analog Output Commons	1
Number of Points per Analog Output Common	1
Output Resolution	16-bit
Output Current Signal Range	4-20 mA and +/- 20 mA

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<b>Output Voltage Signal Range</b>	0-5 VDC, 0-10 VDC, +/- 5 VDC and +/- 10 VDC
<b>Maximum Number of PID Loops</b>	100+ (configurable to memory limit)
<b>Number of High-Speed Capable Input Points</b>	10
<b>High-Speed Counter(s)</b>	<ul style="list-style-type: none"><li>• up to (3) up counters</li><li>• up to (3) down counters</li><li>• up to (3) up/down counters</li><li>• up to (3) pulse/direction (bi-directional) counters</li><li>• up to (3) quadrature (A and B) counters</li><li>• up to (3) quadrature (A and B with Z) counters</li></ul>
<b>Position Scaling</b>	<ul style="list-style-type: none"><li>• up to (3) up counters</li><li>• up to (3) down counters</li><li>• up to (3) up/down counters</li><li>• up to (3) pulse/direction (bi-directional) counters</li><li>• up to (3) quadrature (A and B) counters</li><li>• up to (3) quadrature (A and B with Z) counters</li></ul>
<b>Interval Measurement</b>	<ul style="list-style-type: none"><li>• up to (3) single input (edge) timers</li><li>• up to (3) dual input (dual edge) timers</li></ul>
<b>Duration Measurement</b>	up to (3) single input (edge) timers
<b>Frequency Measurement</b>	<ul style="list-style-type: none"><li>• up to (3) single input up counters</li><li>• up to (3) single input down counters</li><li>• up to (3) pulse/direction (bi-directional) counters</li><li>• up to (3) quadrature input (A and B) counters</li><li>• up to (3) quadrature (A and B with Z) counters</li><li>• up to (3) edge timers interval scaling</li><li>• up to (3) dual edge timers interval scaling</li></ul>
<b>Interrupt(s)</b>	<ul style="list-style-type: none"><li>• up to (4) input interrupts</li><li>• up to (4) timer interrupts</li><li>• up to (4) match register interrupts</li></ul>
<b>Includes</b>	BX-RTB03S terminal block and D0-MC-BAT battery
<b>Requires</b>	BX-RTB18 or BX-RTB18-1 terminal block kit or ZIPLink pre-wired cables
<b>Dangerous Goods</b>	<ul style="list-style-type: none"><li>• Battery Installed: Yes</li><li>• Packaging Instructions: 970</li><li>• UN Number: UN3091</li><li>• Hazard Type: Lithium Batteries</li><li>• Battery Type: Button</li><li>• Lithium Content: 0.07</li><li>• Replacement Battery: D0-MC-BAT</li><li>• Generic Battery: CR2032</li></ul>

## Agency Approvals

<b>UL Listed File #</b>	E185989
<b>UL Recognized File #</b>	None
<b>UL Hazardous File #</b>	None
<b>CE</b>	<a href="#">View CE declarations</a>
<b>CSA File #</b>	None
<b>RoHS Status</b>	Yes (See CE Doc)
<b>EU REACH</b>	<a href="#">View EU REACH document</a>

## Dimensional Drawings



2D Drawing PDF Link:  
<https://cdn.automationdirect.com/static/drawings/BX-DM1E-18ER3-D.pdf>  
See store item page for other formats.