BX-DM1-18ED2 Cut Sheet

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BRX Do-more PLC, 120-240 VAC required, serial port, microSD card slot, Discrete Input: 10-point, AC/DC, Discrete Output: 8-point, sourcing.

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

https://www.automationdirect.com/pn/BX-DM1-18ED2

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)	(1) RS-232/RS-485 (3-pin terminal)
Port Protocol(s)	• Do-more protocol • Modbus RTU Master/Slave • ASCII In/out • K-sequence Slave • programming and monitoring
Port Speed(s)	up to 115.2k baud
Real Time Clock/Calendar	Yes
Retentive Memory	Yes
Battery Backup	Yes
Maximum Expansion Modules Allowed	4
External Power Requirement	120-240 VAC
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	12-24 VDC

Discrete Output Type	Sourcing
Load Current	0.5A/point
Number of Isolated Discrete Output Commons	2
Number of Points per Discrete Output Common	4
Maximum Switching Frequency	250 kHz
Maximum Number of PID Loops	100+ (configurable to memory limit)
Number of High-Speed Capable Input Points	10
High-Speed Counter(s)	• up to (3) up counters • up to (3) down counters • up to (3) up/down counters • up to (3) pulse/direction (bi-directional) counters • up to (3) quadrature (A and B) counters • up to (3) quadrature (A and B with Z) counters
Position Scaling	• up to (3) up counters • up to (3) down counters • up to (3) up/down counters • up to (3) pulse/direction (bi-directional) counters • up to (3) quadrature (A and B) counters • up to (3) quadrature (A and B with Z) counters
Interval Measurement	• up to (3) single input (edge) timers • up to (3) dual input (dual edge) timers
Duration Measurement	up to (3) single input (edge) timers
Frequency Measurement	• up to (3) single input up counters • up to (3) single input down counters • up to (3) pulse/direction (bi-directional) counters • up to (3) quadrature input (A and B) counters • up to (3) quadrature (A and B with Z) counters • up to (3) edge timers interval scaling • up to (3) dual edge timers interval scaling
Interrupt(s)	• up to (4) input interrupts • up to (4) timer interrupts • up to (4) match register interrupts
Table-Driven Input(s)	• up to (4) programmable limit switches • up to (4) preset tables

Number of High-Speed Capable Output Points	4
Output Pulse Mode(s)	• up to (4) virtual axes • up to (3) PTO linear step/direction outputs • up to (2) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs • up to (2) PTO quadrature (A and B) outputs • up to (3) PWM pulse width modulation outputs
Axis Profile(s)	• relative/absolute positioning • velocity mode • trapezoid • S-curve • electronic gearing • camming • following • homing • jogging • linear interpolation • online edit • x-y trend view
Includes	BX-RTB03S terminal block and D0-MC-BAT battery
Requires	BX-RTB18 or BX-RTB18-1 terminal block kit or ZIPLink pre-wired cables
Dangerous Goods	• Battery Installed: Yes • Packaging Instructions: 970 • UN Number: UN3091 • Hazard Type: Lithium Batteries • Battery Type: Button • Lithium Content: 0.07 • Replacement Battery: D0-MC-BAT • Generic Battery: CR2032

Agency Approvals

UL Listed File #	E185989
UL Recognized File #	None
UL Hazardous File #	None
CE	View CE declarations
CSA File #	None
RoHS Status	Yes (See CE Doc)
EU REACH	View EU REACH document

Dimensional Drawings

2D Drawing PDF Link:
https://cdn.automationdirect.com/static/drawings/BX-DM1-18ED2.pdf
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