BX-DM1-10ED1-D Cut Sheet

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BRX Do-more PLC, 12-24 VDC required, serial port, microSD card slot, Discrete Input: 6-point, AC/DC, Discrete Output: 4-point, sinking.

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

https://www.automationdirect.com/pn/BX-DM1-10ED1-D

Technical Specifications

Brand	BRX Do-more		**Nominal Output Voltage**	12-24 VDC
Item	PLC		**Discrete Output Type**	Sinking
Total Memory	192k words		**Load Current**	0.5A/point
Ladder Memory	64k words		**Number of Isolated Discrete Output Commons**	2
User Data Memory	128k words		**Number of Points per Discrete Output Common**	2
Removable Media Type	MicroSD card slot		**Maximum Switching Frequency**	250 kHz
Programming Language	Ladder			
Programming Software	Do-more Designer programming software v2.0 or later		**Maximum Number of PID Loops**	100+ (configurable to memory limit)
Communication Port and Connection Type(s)	(1) RS-232/RS-485 (3-pin terminal)		**Number of High-Speed Capable Input Points**	6
Port Protocol(s)	• Do-more protocol • Modbus RTU Master/Slave • ASCII In/out • K-sequence Slave • webserver (non-secure HTTP) • programming and monitoring		**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
Port Speed(s)	up to 115.2k baud		**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
Real Time Clock/Calendar	Yes			
Retentive Memory	Yes			
Battery Backup	Yes			
Maximum Expansion Modules Allowed	2		**Interval Measurement**	• up to (3) single input (edge) timers • up to (3) dual input (dual edge) timers
External Power Requirement	12-24 VDC		**Duration Measurement**	up to (3) single input (edge) timers
Number of Discrete Input Points	6		**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
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	3		**Interrupt(s)**	• up to (4) input interrupts • up to (4) timer interrupts • up to (4) match register interrupts
Frequency Response	250 kHz		**Table-Driven Input(s)**	• up to (4) programmable limit switches • up to (4) preset tables
Number of Discrete Output Points	4			

Number of High-Speed Capable Output Points	2
Output Pulse Mode(s)	• up to (4) virtual axes • up to (2) PTO linear step/direction outputs • up to (1) PTO rotary clockwise/counter-clockwise (CW/CCW) output • up to (1) PTO quadrature (A and B) output • up to (2) 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-RTB10, BX-RTB10-1 or BX-RTB10-2 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-DM1-10ED1-D.pdf
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