

BX-HSIO1 Cut Sheet



BRX pulse combo module, 250 kHz maximum switching frequency, 8 high-speed input point(s), sinking/sourcing, single-ended encoder input(s), 8 high-speed output point(s), sinking, single-ended output(s).

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



<https://www.automationdirect.com/pn/BX-HSIO1>

Technical Specifications

Brand	BRX
Item	Combo module
I/O Module Type	Pulse
Maximum Switching Frequency	250 kHz
Number of High-Speed Capable Input Points	8
Nominal Input Voltage	12-24 VDC
Discrete Input Type	Sinking/sourcing
Number of Non-Isolated Input Commons	2
Number of Isolated Input Commons	2
Number of Input Channels	8
Encoder Input Type	push-pull (totem)
Number of High-Speed Capable Output Points	8
Nominal Output Voltage	12-24 VDC
Discrete Output Type	Sinking
Number of Non-Isolated Output Commons	2
Number of Isolated Output Commons	2
Load Current	0.5A/point
Number of Output Channels	8
Pulse Output Channel Type	<ul style="list-style-type: none"> • NPN open collector • PNP open collector • push-pull (totem)
High-Speed Counter(s)	<ul style="list-style-type: none"> • up to (4) up counters • up to (4) down counters • up to (4) up/down counters • up to (4) pulse/direction (bi-directional) counters • up to (4) quadrature (A and B) counters • up to (4) quadrature (A and B with Z) counters

Position Scaling	up to (4) up counters, up to (4) down counters, up to (4) up/down counters, up to (4) pulse/direction (bi-directional) counters, up to (4) quadrature (A and B) counters, up to (4) quadrature (A and B with Z) counters
Interval Measurement	up to (4) single input (edge) timers, up to (4) dual input (dual edge) timers
Duration Measurement	up to (4) single input (edge) timers
Frequency Measurement	up to (4) single input up counters, up to (4) single input down counters, up to (4) pulse/direction (bi-directional) counters, up to (4) quadrature input (A and B) counters, up to (4) quadrature (A and B with Z) counters, up to (4) edge timers interval scaling, up to (4) 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
Output Pulse Mode(s)	up to (4) virtual axes, up to (3) PTO linear step/direction outputs, up to (3) PTO rotary clockwise/counter-clockwise (CW/CCW) outputs, up to (3) PTO quadrature (A and B) outputs, up to (4) PWM pulse width modulation outputs
Axis Profile(s)	relative/absolute positioning, velocity mode, trapezoid, jerk, registration, homing, jogging, electronic gearing, camming, linear mode, rotary mode, motion sequence
Requires	BX-RTB10, BX-RTB10-1 or BX-RTB10-2 terminal block kit

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Programming Software	Do-more Designer programming software v2.5 or later
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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