

BX-HSIO2 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), sourcing, 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-HSIO2>

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	Sourcing
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	<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
Interval Measurement	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • up to (4) input interrupts • up to (4) timer interrupts • up to (4) match register interrupts
Table-Driven Input(s)	<ul style="list-style-type: none"> • up to (4) programmable limit switches • up to (4) preset tables
Output Pulse Mode(s)	<ul style="list-style-type: none"> • 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)	<ul style="list-style-type: none"> • 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

Dimensional Drawings



2D Drawing PDF Link:
<https://cdn.automationdirect.com/static/drawings/BX-HSIO2.pdf>
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