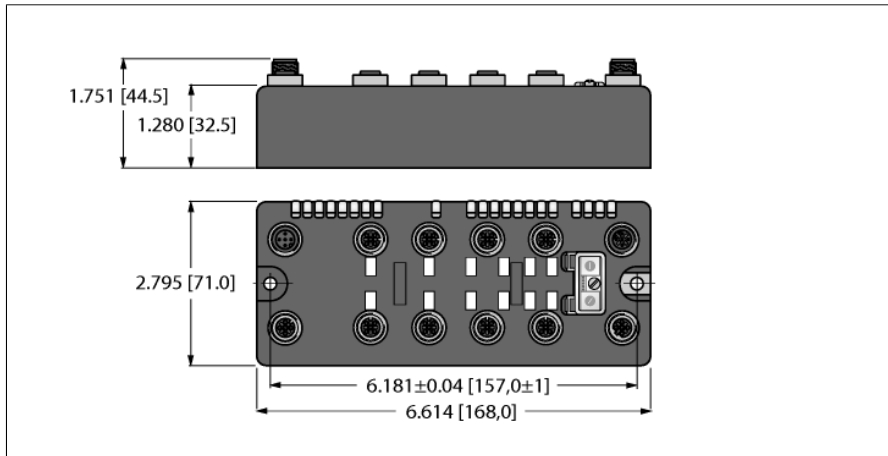


BL compact™ fieldbus station for CANopen
8 Digital PNP Outputs
BLCCO-8M12LT-4DO-2A-P-4DO-2A-P



- On-machine Compact fieldbus I/O block
- CANopen slave
- 10, 20, 50, 125, 250, 500, 800, or 1000 kbps
- Two 5-pole M12 connectors for fieldbus connection
- 2 rotary switches for node address
- IP67, IP69K
- M12 I/O connectors
- LEDs indicating status and diagnostics
- Electronics galvanically separated from the field level via optocouplers
- 8 digital PNP outputs, 24 VDC
- Max. 2A per output (4A total)

Type designation	BLCCO-8M12LT-4DO-2A-P-4DO-2A-P
Ident-No.	6811331
Fieldbus transmission rate	10 kbps ... 1 Mbps
Adjustment transmission rate	Automatic detection
Fieldbus connection technology	2 × M12, 5-pole
Fieldbus address range	1...99
Fieldbus addressing	2 decimally coded rotary switches
Service interface	RS232 interface
Digital outputs	
Output type	PNP
Type of output diagnostics	Channel diagnostics
Output voltage	24 VDC
Output current per channel	2 A
Output delay	3 ms
Load type	resistive, inductive, lamp load
Load resistance, resistive	> 12 Ω
Load resistance, inductive	< 1.2 H
Lamp load	< 10 W
Switching frequency, resistive	< 200 Hz
Switching frequency, inductive	< 2 Hz
Switching frequency, lamp load	< 20 Hz
Short-circuit protection	yes
Vibration test	according to IEC 61131-2
Extended vibration resistance	
- up to 20 g (at 10 up to 150 Hz)	For mounting on base plate or machinery
Shock test	according to IEC 61131-2
Electromagnetic compatibility	according to IEC 61131-2
Approvals and certificates	CE, cULus
Dimensions (W x L x H)	71 x 168 x 32.5mm
Operating temperature	-40...+70 °C
Storage temperature	-40...+85 °C
Relative humidity	15 to 95% (non-condensing)
Protection class	IP67
	IP69K
Housing material	Glass-filled nylon, nickel plated brass connectors
Housing color	Black
Window material	Lexan
Material screw	Nickel-plated brass
Material label	Polyester with polycarbonate overlay
Ground label material	Nickel plated brass
Weight	620 ± 20 g
Mounting	2 × 5.4 mm diameter holes, 1.7 Nm torque

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Pinning and wiring diagram

	<p>CANopen Fieldbus cable (example): RSC RKC 572-2M ident-no. U0323 or RSC-RKC572-2M ident-no. 6603629</p>	<p>Pin Assignment</p> <p>1 = shield 2 = V + 3 = V - 4 = CAN_H 5 = CAN_L</p>
	<p>Slot 1: Digital Outputs Extension cable (example): RK 4T-2-RS 4T ident-no. U2151-3 or RKC4T-2-RSC4T/TEL ident-no. 6625204</p>	<p>Pin Assignment</p> <p>1 = VSENS 2 = n.c. 3 = GND 4 = Output A 5 = PE</p>
	<p>Slot 1: Digital Outputs See slot 1</p>	<p>Pin Assignment</p> <p>1 = VSENS 2 = n.c. 3 = GND 4 = Output A 5 = PE</p>
	<p>Auxiliary Power Extension cable (example): RKC 4.4T-2-RSC 4.4T ident-no. U5264 or RKC4.4T-2-RSC4.4T/TEL ident-no. 6625208</p>	<p>Pin Assignment</p> <p>1 = Vi 2 = Vo 3 = GND 4 = GND</p>

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Station LED status

LED	Color	Status	Description
IOs		OFF	No power
	RED	ON	Low power or station error
	RED	FLASHING (1 Hz)	I/O module configuration error
	RED	FLASHING (4 Hz)	No I/O module bus communication
	GREEN	ON	Station ok
	GREEN	FLASHING	Force mode active
ERR	-	OFF	No communication error
	RED	ON	CAN bus communication error
BUS	GREEN	ON	NMT-slave state is „Operational“
	ORANGE	ON	NMT-slave state is „Pre-Operational“
	RED	ON	NMT-slave state is „Stopped“
ERR & BUS	RED (ERR) & GREEN (BUS)	FLASHING (4 Hz)	Searching for the baud rate

I/O LED status slot 1

LED	Color	Status	Description
D1 *		OFF	No diagnostics active
	RED	ON	Station error/ module bus communication failure
	RED	FLASHING (0.5Hz)	Diagnostics active (Slot 1)
DO channels 0...3		OFF	Status of channel x = „0“ (OFF), no diagnostics active
	GREEN	ON	Status of channel x = „1“ (ON)
	RED	ON	Short circuit / overload on channel x

* D1 LED also indicates gateway diagnostics

I/O LED status slot 2

LED	Color	Status	Description
D2 *		OFF	No diagnostics active
	RED	ON	Station error/ module bus communication failure
	RED	FLASHING (0.5Hz)	Diagnostics active (Slot 2)
DO channels 0...3		OFF	Output status x = „0“ (OFF), no diagnostics active
	GREEN	ON	Output status x = „1“ (ON)
	RED	ON	Short circuit / overload at output x

* D2 LED also indicates gateway diagnostics

BL compact™ fieldbus station for CANopen
8 Digital PNP Outputs
BLCCO-8M12LT-4DO-2A-P-4DO-2A-P**I/O Data Map**

OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	DO 2 ₃	DO 2 ₂	DO 2 ₁	DO 2 ₀	DO 1 ₃	DO 1 ₂	DO 1 ₁	DO 1 ₀
	1	-	-	-	-	-	-	-	-