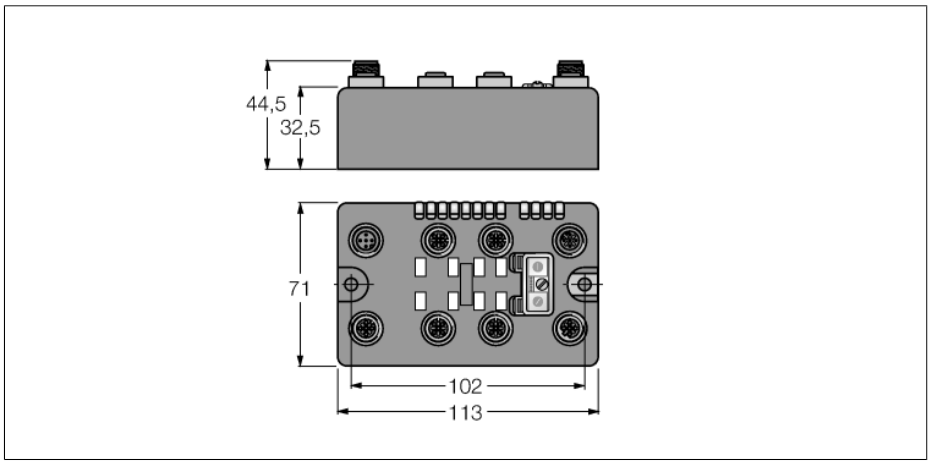
BL compact fieldbus station for CANopen
4 Digital PNP Outputs
BLCCO-4M12MT-4DO-2A-P



- **Compact fieldbus I/O module in IP69K**
- **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**
- **IP69K**
- **M12 I/O connectors**
- **LEDs indicating status and diagnostics**
- **Electronics galvanically separated from the field level via optocouplers**
- **4 digital PNP outputs, 24 VDC**
- **Max. 2A per output (4A total)**

Type code	BLCCO-4M12MT-4DO-2A-P
Ident no.	6811313

Nominal system voltage	24 VDC
System power supply	via fieldbus and auxiliary
Voltage supply connection	2 x M12, 4-pole
Nominal current V+	30 mA
Max. current V+	4 A
Admissible range Vo	11…30VDC
Nominal current Vo	100 mA
Max. current Vo	4 A

Fieldbus transmission rate	10 kbps … 1 Mbps
Adjustment transmission rate	auto detection
Fieldbus addressing range	1...99
Fieldbus addressing	2 decimally coded rotary switches
Fieldbus connection technology	2 x M12 5-pole
Fieldbus termination	external
Service interface	RS232 interface

Digital outputs	
Output type	PNP
Type of output diagnostics	channel diagnostics
Sensor supply (V_{SENS})	24 VDC
Output current per channel	2 A
Output voltage	24 VDC
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

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BL compact fieldbus station for CANopen
4 Digital PNP Outputs
BLCCO-4M12MT-4DO-2A-P

Dimensions	1130x 710x 325 mm
Operating temperature	-40...+70 °C
Storage temperature	-40...+85 °C
Relative humidity	15 to 95% (non-condensing)
Vibration test	according to IEC 61131-2
Extended vibration resistance	
- up to 20 g (at 10 to 150 Hz)	For mounting on base plate or machinery
Shock test	according to IEC 61131-2
Electro-magnetic compatibility	according to IEC 61131-2
Protection class	IP69K
Housing material	Glass-filled nylon, nickel plated brass connectors
Housing color	Black
Window material	Lexan
Screw material	Nickel plated brass
Label material	Polyester with Polycarbonate overlay
Ground tab material	Nickel plated brass
Weight	390 ± 20 g
Approvals and certificates	CE, cULus

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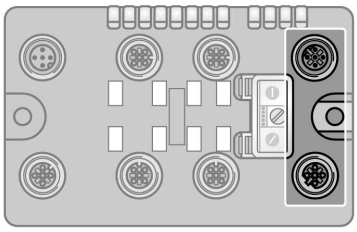
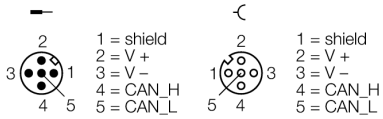
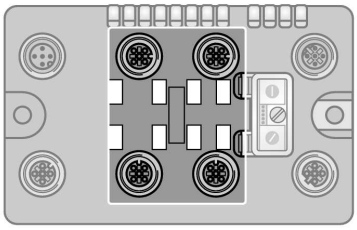
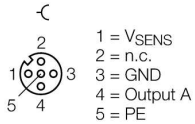
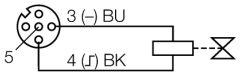
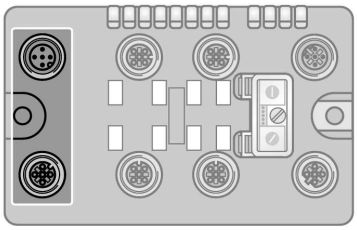
	Fieldbus cable (example): RSC RKC 572-2M ident-no. U0323 or RSC-RKC572-2M ident-no. 6603629	Pin assignment 
	Extension cable (example): RK 4T-2-RS 4T ident-no. U2151-3 or RKC4T-2-RSC4T/TEL ident-no. 6625204	Pin assignment  Wiring diagram 
	Extension cable (example): RKC 4.4T-2-RSC 4.4T ident-no. U5264 or RKC4.4T-2-RSC4.4T/TEL ident-no. 6625208	Pin assignment 

Status: Station LED

LED	Color	Status	Description
IOs		OFF	No power supply
	RED	ON	Insufficient power supply
	RED	FLASHING (1Hz)	Deviating station configuration
	RED	FLASHING (4 Hz)	No module bus communication
	GREEN	ON	Station OK
	GREEN	FLASHING	Force mode active
ERR	-	OFF	Normal operating mode
	RED	ON	CAN communication interrupted
BUS	GREEN	ON	NMT slave status operational
	ORANGE	ON	NMT slave status pre-operational
	RED	ON	NMT slave status stopped
ERR & BUS	RED	FLASHING (4 Hz)	Invalid node ID

Status: I/O LED

LED	Color	Status	Description
D *		OFF	Diagnostic disabled
	RED	ON	Station / module bus communication failure
	RED	FLASHING (0.5Hz)	Group diagnostic
DO channels		OFF	Status channel x = 0 (OFF), diagnostic disabled
0…3	GREEN	ON	Status channel x = 1 (ON)
	RED	ON	Short-circuit/overload at channel x

* D LED also indicates gateway diagnostic

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I/O Data Map

OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	-	-	-	-	DO 1_3	DO 1_2	DO 1_1	DO 1_0
	1	-	-	-	-	-	-	-	-

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