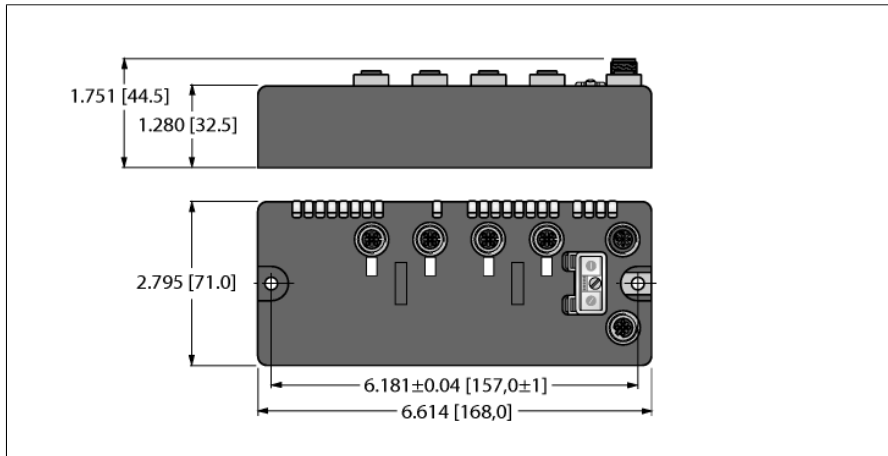


BL compact™ fieldbus station for CANopen
4 Analog Inputs for Pt and Ni Sensors
BLCCO-4M12L-2AI-PT-2AI-PT

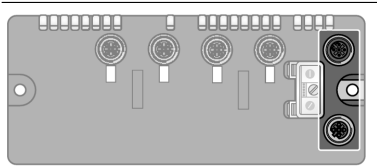
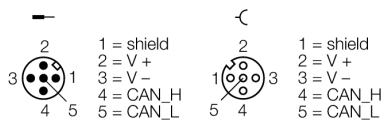
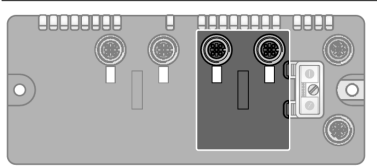
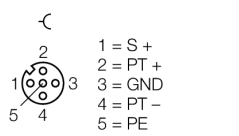
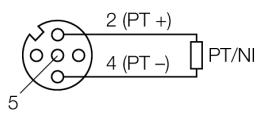
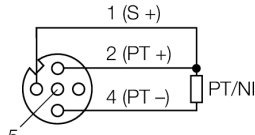
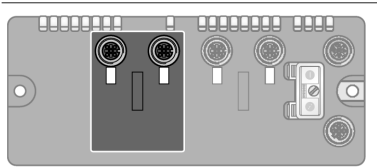
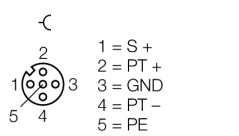


- On-machine Compact fieldbus I/O block
- CANopen slave
- 10, 20, 50, 125, 250, 500, 800, or 1000 kbps
- Two 5-pole M12 connectors for fieldbus connection
- 2 rotary switches for node address
- IP67, IP69K
- M12 I/O connectors
- LEDs indicating status and diagnostics
- Electronics galvanically separated from the field level via optocouplers
- 4 analog inputs for RTDs
- Pt100, Pt200, Pt500, Pt1000, Ni100, Ni1000, 0...100Ω, 0...200Ω, 0...400Ω, or 0...1000Ω (selectable per channel)

Type designation	BLCCO-4M12L-2AI-PT-2AI-PT
Ident-No.	6811308
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
Analog inputs	
Operating modes	Pt100, 200, 500, 1000 & Ni100, 1000
Resolution	16 bit
Repeatability	< 0.05 %
Temperature coefficient	< 300 ppm / °C of full scale
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	470 ± 20 g
Mounting	2 × 5.4 mm diameter holes, 1.7 Nm torque

BL compact™ fieldbus station for CANopen
4 Analog Inputs for Pt and Ni Sensors
BLCCO-4M12L-2AI-PT-2AI-PT

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: RTD Inputs Extension cable (example): RK 4T-2-RS 4T/S3041 ident-no. U-1666 or RKC4.5T-2-RSC4.5/TEL ident no. 6625212 NOTE: Do not connect Pin 3. Use only sensor cables without pin 3 or field-wireable connectors.</p>	<p>Pin Assignment</p>  <p>1 = S + 2 = PT + 3 = GND 4 = PT - 5 = PE</p> <p>2-wire Technology</p>  <p>3-wire Technology</p> 
	<p>Slot 2: RTD Inputs See slot 1</p>	<p>Pin Assignment</p>  <p>1 = S + 2 = PT + 3 = GND 4 = PT - 5 = PE</p>

BL compact™ fieldbus station for CANopen
4 Analog Inputs for Pt and Ni Sensors
BLCCO-4M12L-2AI-PT-2AI-PT

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)
AI channels 0 / 1			Not connected

* 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)
AI channels 0 / 1			Not connected

* D2 LED also indicates gateway diagnostics

BL compact™ fieldbus station for CANopen
4 Analog Inputs for Pt and Ni Sensors
BLCCO-4M12L-2AI-PT-2AI-PT**I/O Data Map**

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
AI 1 ₀	0	AI 1 ₀ LSB							
	1	AI 1 ₀ MSB							
AI 1 ₁	2	AI 1 ₁ LSB							
	3	AI 1 ₁ MSB							
AI 2 ₀	4	AI 2 ₀ LSB							
	5	AI 2 ₀ MSB							
AI 2 ₁	6	AI 2 ₁ LSB							
	7	AI 2 ₁ MSB							