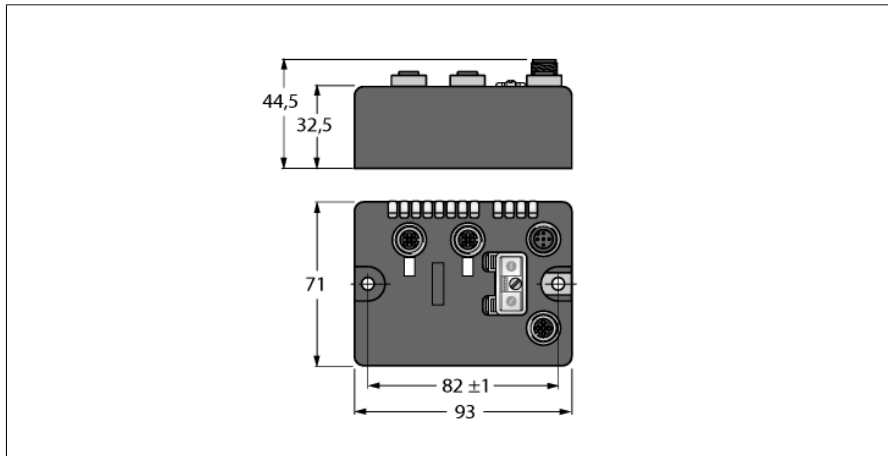


BL Compact Fieldbus Station for DeviceNet
2 Analog Current Outputs
BLCDN-2M12S-2AO-I



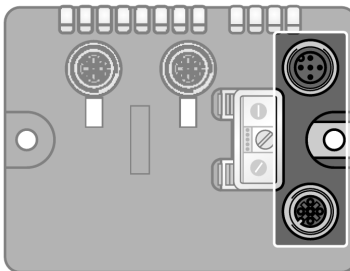
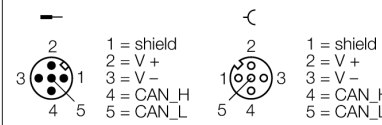
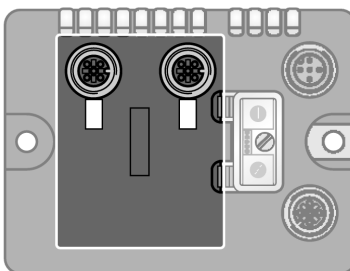
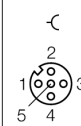
- On-Machine™ compact fieldbus I/O blocks
- DeviceNet™ slave
- 125/250/500 kbps
- Two 5-pin M12 male receptacles for fieldbus connection
- 2 rotary coding switches for node-address
- IP 69K
- M12 I/O ports
- LEDs indicating status and diagnostics
- Electronics galvanically isolated from the field level via optocouplers
- 2 analogue Stromausgänge
- 0/4...20 mA

Type designation	BLCDN-2M12S-2AO-I
Ident no.	6811037
Nominal system voltage	24 VDC
System power supply	Via DeviceNet
Admissible range V+	18...30 VDC
Nominal current V+	80 mA
Max. current V+	4 A
Fieldbus transmission rate	125/250/500 kbps
Adjustment transmission rate	Automatic detection
Fieldbus address range	0...63
	64...80 (programmable MACID)
	81...99 (manufacturer specific)
Fieldbus addressing	2 dec. Rotary coding switches
Fieldbus connection technology	2 × M12
	5-pin
Fieldbus termination	External
Service interface	RS232 interface
Vendor ID	48
Product type	12
Product code	11037
Analog outputs	from 2AO-I
Operating modes	0/4 ... 20 mA
Type of output diagnostics	Channel diagnostics
Sensor supply	24 VDC, 250 mA pro Kanal
Load resistance, resistive	< 0,45 kΩ
Load resistance, inductive	< 1 mH
Transmission frequency	< 200 Hz
Basic fault limit at 23 °C	< 0.2 %
Repeat accuracy	< 0.05 %
Temperature coefficient	< 150 ppm / °C v.E.
Resolution	16 Bit
Measured-value display	16 bit signed integer
	12 bit full range left-justified

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Dimensions	93 x 71 x 32.5 mm
Mounting	2 x 5.4 mm diameter holes, 1.7 Nm torque
Weight	290 ± 20 g
Housing material	Glass fiber reinforced nylon, nickel-plated connector
Housing color	Black
Material screw	Nickel-plated brass
Material label	Polyester with polycarbonate overlay
Ground label material	Nickel-plated brass
Protection class	IP67 IP69K
Ambient temperature	-40...+70 °C
Storage temperature	-40...+85 °C
Relative humidity	15...95 %, non-condensing
Vibration test	Acc. to IEC 61131-2
- up to 20 g (at 10 up to 150 Hz)	For mounting on base plate or machinery
Shock test	acc. to IEC 61131-2
Electromagnetic compatibility	Acc. to IEC 61131-2
Approvals and certificates	CE, cULus

BL Compact Fieldbus Station for DeviceNet
2 Analog Current Outputs
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	<p>DeviceNet 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>Analog Outputs Extension cable (example): RK 4.5T-2-RS 4.5T/S653 ident-no. U2187-09 or RKC4.5T-2-RSC4.5T/TEL ident-no. 6625212</p>	<p>Pin Assignment</p>  <p>1 = V_{SENS} 2 = AO + 3 = GND 4 = AO - 5 = PE</p>

BL Compact Fieldbus Station for DeviceNet
2 Analog Current Outputs
BLCDN-2M12S-2AO-I**Status: Station LED**

LED	Color	Status	Description
IOs		OFF	Power off
	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
MNS		OFF	No connection
	GREEN	ON	Fieldbus communication active
	GREEN	FLASHING (1Hz)	Fieldbus communication disabled, device status OK
	RED	ON	Double MAC-ID
	RED	FLASHING	Fieldbus communication timeout
IO	GREEN	ON	I/O slots OK
	GREEN	FLASHING (1Hz)	At least one I/O slot in idle state
	RED	ON	At least one faulty I/O slot
	RED	FLASHING	At least one I/O slot in faulty state

Status: I/O LED

LED	Color	Status	Description
D *		OFF	Diagnostic disabled
	RED	ON	Station / module bus communication failure
	RED	FLASHING (0.5Hz)	Summarized diagnostic
AO channels 0 / 1			Without function

* D LED also indicates gateway diagnostic

BL Compact Fieldbus Station for DeviceNet
2 Analog Current Outputs
BLCDN-2M12S-2AO-I**Mapping of I/O and Diagnostic Data**

OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
AO 1 ₀	0	AO 1 ₀ LSB							
	1	AO 1 ₀ MSB							
AO 1 ₁	2	AO 1 ₁ LSB							
	3	AO 1 ₁ MSB							