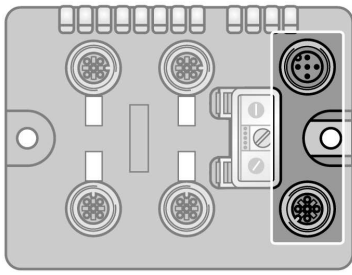


- Compact fieldbus I/O module in IP69K
- DeviceNet™ slave
- 125 / 250 / 500 kbps
- Two 5-pole M12 connectors for fieldbus connection
- 2 rotary switches for node address
- IP69K
- M12 I/O connectors
- LEDs indicating status and diagnostics
- Electronics galvanically separated from the field level via optocouplers
- 8 digital PNP inputs, 24 VDC
- Channel diagnostics
- Wire-break monitoring
- Selection of filtering times (Input delay)
- Invertible inputs

<b>Type code</b>	BLCDN-4M12S-8DI-PD
Ident no.	6811005
<b>Nominal system voltage</b>	24 VDC
System power supply	via DeviceNet
Admissible range V+	11...30VDC
Nominal current V+	130 mA
Max. current V+	4 A
<b>Fieldbus transmission rate</b>	125 / 250 / 500 kbps
Adjustment transmission rate	auto detection
Fieldbus addressing range	0...63
	64...80 (Programmable MACID)
	81...99 (Vendor Specific)
Fieldbus addressing	2 decimally coded rotary switches
Fieldbus connection technology	2 x M12
	5-pole
Fieldbus termination	external
Service interface	RS232 interface
Vendor ID	30
Product type	12
Product code	11005
<b>Digital inputs</b>	
Input type	PNP
Type of input diagnostics	channel diagnostics
Sensor supply ( $V_{SENS}$ )	24 VDC, 100 mA short-circuit limiting
Low level signal voltage	< 4.5 VDC
High level signal voltage	7...30 VDC
Low level signal current	< 1.5 mA
High level signal current	2.1 ... 3.7 mA
Input delay	(configurable) 0.25 or 2.5 ms

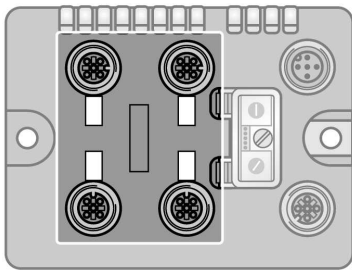
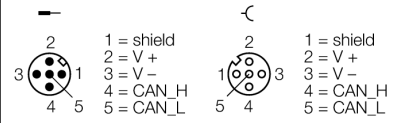
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<b>Dimensions</b>	930x 710x 325 mm
Operating temperature	-40...+70 °C
Storage temperature	-40...+85 °C
Relative humidity	15 to 95% (non-condensing)
Vibration test	according to IEC 61131-2
Extended vibration resistance	
- up to 20 g (at 10 to 150 Hz)	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	320 ± 20 g
Approvals and certificates	CE, cULus



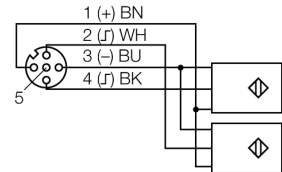
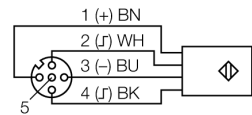
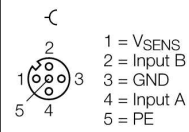
Fieldbus cable (example): RSC RKC 572-2M ident-no. U0323 or RSC-RKC572-2M ident-no. 6603629

Pin assignment

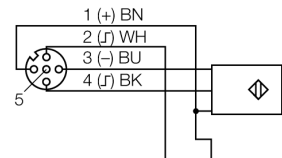


Extension cable (example): RK 4.4T-2-RS 4.4T ident-no. U2445 or RKC4.4T-2-RSC4.4T/TEL ident-no. 6625208

Pin assignment



Wiring diagram for wire-break monitoring



**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
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)	Group diagnostic
DI channels 0...7		OFF	Status channel x = 0 (OFF), diagnostic disabled
	GREEN	ON	Status input x = 1 (ON)
	RED	ON	Wire-break monitoring active (LEDs 0 ... 3)
	RED	FLASHING (2 Hz)	Overload sensor supply

\* D LED also indicates gateway diagnostic

**I/O & Diagnostic Data Map**

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0	DI 1 <sub>7</sub>	DI 1 <sub>6</sub>	DI 1 <sub>5</sub>	DI 1 <sub>4</sub>	DI 1 <sub>3</sub>	DI 1 <sub>2</sub>	DI 1 <sub>1</sub>	DI 1 <sub>0</sub>
	1	-	-	-	-	-	-	-	-
Diagnostics	2	Module number reporting diagnostic data							
	3	Replace Station	-	Diagnostics Active	-	-	-	-	-
Slot 1 (ref. Byte 2)	4	-	-	-	-	Over Current DI 1 <sub>3</sub> / DI 1 <sub>7</sub>	Over Current DI 1 <sub>2</sub> / DI 1 <sub>6</sub>	Over Current DI 1 <sub>1</sub> / DI 1 <sub>5</sub>	Over Current DI 1 <sub>0</sub> / DI 1 <sub>4</sub>
	5	-	-	-	-	Open Circuit DI 1 <sub>3</sub> / DI 1 <sub>7</sub>	Open Circuit DI 1 <sub>2</sub> / DI 1 <sub>6</sub>	Open Circuit DI 1 <sub>1</sub> / DI 1 <sub>5</sub>	Open Circuit DI 1 <sub>0</sub> / DI 1 <sub>4</sub>