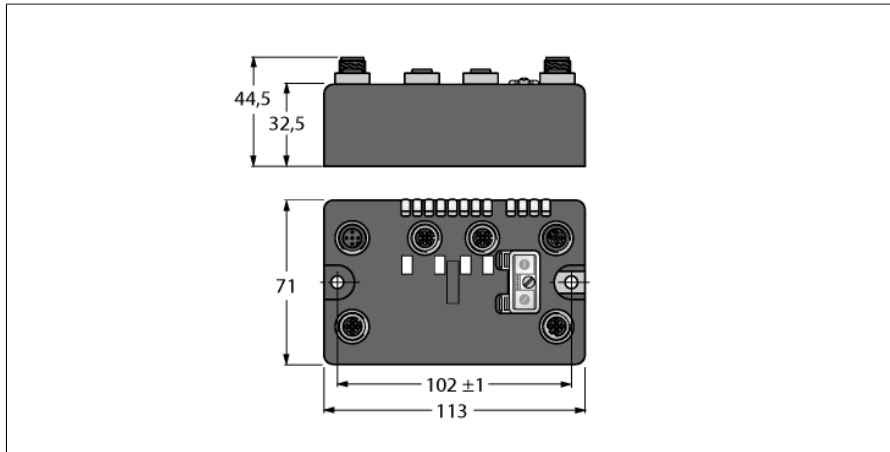


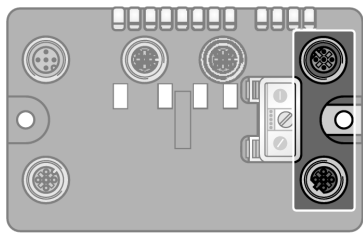
# BL compact Fieldbus Station for PROFIBUS-DP Interface for Connection of 2 BL ident® Read/Write Heads (HF/ UHF) BLCDP-2M12MT-2RFID-A



Type	BLCDP-2M12MT-2RFID-A
ID	6811166
Nominal system voltage	24 VDC
System power supply	Via auxiliary power
Voltage supply connection	2 x M12, 5-pin
Admissible range $V_i$	18...30 VDC
Nominal current $I_i$	125 mA
Max. current $I_i$	1 A
Fieldbus transmission rate	9.6 kbps ... 12 Mbps
Adjustment transmission rate	Automatic detection
Fieldbus address range	0...99
Fieldbus addressing	2 dec. Rotary coding switches
Fieldbus connection technology	2 x M12
	5-pin, reverse-keyed
Fieldbus termination	External
Service interface	RS232 interface
Technology	
Signal type	Advanced RFID Interface
Number of channels	2
Sensor supply	0.5 A per channel, short-circuit proof
Simultaneity factor	1
Transmission rate	115.2 kbps
Cable length	50 m
Electrical isolation	Electronics and field level isolated via optocouplers

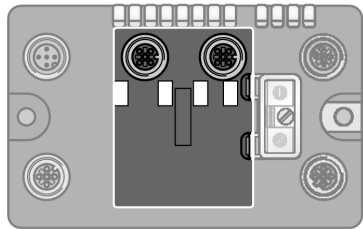
- On-Machine™ compact fieldbus I/O blocks
- PROFIBUS-DP slave
- 9.6 kbps ... 12 Mbps
- Two 5-pin, reverse-keyed M12 male receptacles for fieldbus connection
- 2 rotary coding switches for node-address
- IP 69K
- M12 I/O ports
- LEDs indicating status and diagnostics
- Electronics galvanically isolated from the field level via optocouplers
- Extended RFID interface
- Control with the Proxy Ident Function Block
- Connection of 2 BL ident read/write heads
- Max. cable length 50 m

Dimensions	113 x 71 x 32.5 mm
Mounting	2 × 5.4 mm diameter holes, 1.7 Nm torque
Weight	360 ± 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



### PROFIBUS-DP

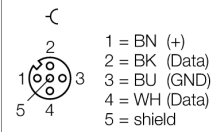
Fieldbus cable (example): RSSW RKSW 455-2M ident-no. U0350  
or RSSW-RKSW455-2M ident-no. 6602222



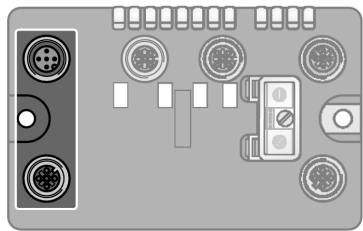
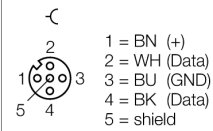
### RFID Channels

Extension cable (example): RK 4.5T-2-RS 4.5T/S2501 ident-no. U3-01243 or RK4.5T-2-RS4.5T/S2500 ident-no. 6699200

#### .../S2500 Connectors



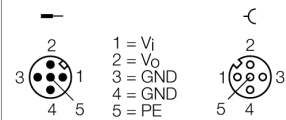
#### .../S2501 Connectors



### 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

#### Pin Assignment



**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
BUS		OFF	Keine Feldbus Kommunikation
	GREEN	ON	Feldbus Kommunikation aktiv
	GREEN	FLASHING (1 Hz)	No field bus communication active, device status OK
	RED	ON	Bus error at the gateway; no data exchange
	RED	FLASHING	Faulty PROFIBUS-DP address
BUS		OFF	Keine Feldbus Kommunikation
	GREEN	ON	Feldbus Kommunikation aktiv
	GREEN	FLASHING (1 Hz)	Keine Feldbuskommunikation aktiv, Gerätestatus OK
	RED	ON	Busfehler am Gateway; kein Datenaustausch
	RED	FLASHING	Fehlerhafte PROFIBUS-DP Adresse

**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
RW0 / RW1		OFF	No tag, diagnostic disabled
	GREEN	ON	Tag available
	GREEN	FLASHING (2 Hz)	Data exchange with tag enabled
	RED	ON	Read/write head fault
	RED	FLASHING (2 Hz)	Short-circuit in the supply line of read/write head

\* D LED also indicates gateway diagnostic

## I/O Data Map

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
RFID 1 <sub>o</sub>	0	Status Word RFID 1 <sub>o</sub> – Low Byte (LSB)							
	1	Status Word RFID 1 <sub>o</sub> – High Byte (MSB)							
RFID 1 <sub>i</sub>	2	Status Word RFID 1 <sub>i</sub> – Low Byte (LSB)							
	3	Status Word RFID 1 <sub>i</sub> – High Byte (MSB)							
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
RFID 1 <sub>o</sub>	0	Status Word RFID 1 <sub>o</sub> – Low Byte (LSB)							
	1	Status Word RFID 1 <sub>o</sub> – High Byte (MSB)							
RFID 1 <sub>i</sub>	2	Status Word RFID 1 <sub>i</sub> – Low Byte (LSB)							
	3	Status Word RFID 1 <sub>i</sub> – High Byte (MSB)							

### ACHTUNG:

Der PIB ist zur Steuerung des RFID-A Moduls erforderlich. Direkte Steuerung über Status und Controlword ist nicht möglich!