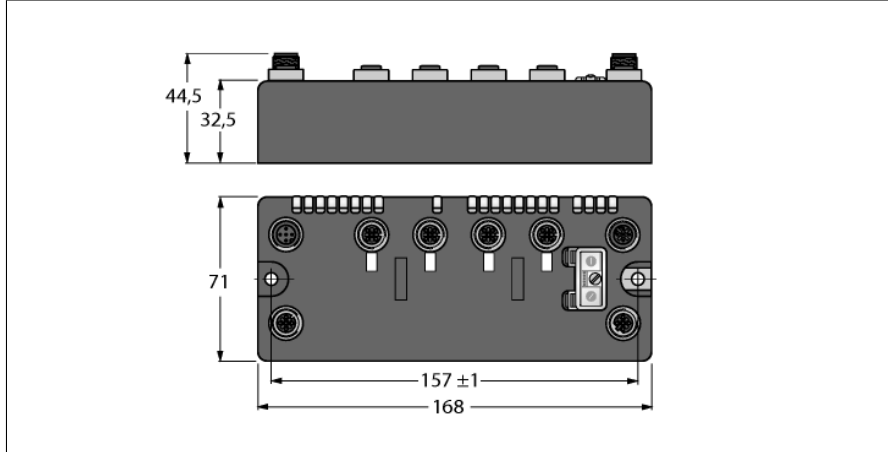


BL compact Multiprotocol Station for Industrial Ethernet Interface for Connection of 4 BL ident® Read/Write Heads (HF/ UHF)

BLCEN-4M12LT-2RFID-S-2RFID-S



Tip	BLCEN-4M12LT-2RFID-S-2RFID-S
Tanıt. no.	6811453
Nominal system voltage	24 VDC
System power supply	yedek güç ile
Voltage supply connection	2 x M12, 5 pimli
Admissible range Vi	18...30 VDC
Nominal current Vi	175 mA
Max. current Vi	2 A
Fieldbus iletim hızı	10/100 Mbps
Ayar iletim hızı	Otomatik algılama
Fieldbus adres aralığı	1...92 0 (192.168.1.254) 93 (BOOTP) 94 (DHCP) 95 (PGM) 96 (PGM-DHCP) *PROFINET için önerilir 97...98 (üreticiye özel)
Fieldbus adresleme	2 dec. Rotary coding switches
Fieldbus bağlantı teknolojisi	2 x M12 4-pin, D-coded
Protokol algılama	otomatik
Web sunucusu	Integrated
Servis arayüzü	Ethernet
Vendor ID	48
Product type	12
Product code	11453

- On-Machine™ kompakt fieldbus I/O blokları
- EtherNet/IP™, Modbus® TCP or PROFINET slave
- Integrated Ethernet switch
- 10 Mbps/100 Mbps supported
- Two 4-pin, D-coded M12 connectors 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
- Simple RFID interface
- Connection of 4 BL ident read/write heads
- Max. cable length 50 m

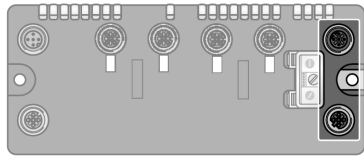
Modbus TCP	
Adresleme	Static IP, BOOTP, DHCP
Desteklenen işlev kodları	FC1, FC2, FC3, FC4, FC5, FC6, FC15, FC16, FC23
TCP bağlantısı sayısı	6
Giriş Verileri Boyutu	maks. 26 kayıt
Giriş kaydı başlangıç adresi	0 (0x0000 hex)
Çıkış Verileri Boyutu	maks. 24 kayıt
Çıkış kaydı başlangıç adresi	2048 (0x0800 hex)

Ethernet/IP	
Adresleme	EtherNet/IP teknik özelliklerine uygundur
Cihaz Düzeyi Zili (CDZ)	destekleniyor
Sınıf 1 bağlantılar (CIP)	6
Input Assembly Instance	103
Giriş Verileri Boyutu	27 INT
Output Assembly Instance	104
Çıkış Verileri Boyutu	24 INT
Configuration Assembly Instance	106
Configuration Size	0
Comm Format	Data - INT

PROFINET	
Adresleme	DCP
Uygunluk sınıfı	B (RT)
MinCycleTime	1 ms
Tanımlama	PROFINET alarm kullanımına göre
Topoloji algılama	destekleniyor
Otomatik adresleme	destekleniyor
Ortam Fazlılığı Protokolü (MRP)	destekleniyor
Giriş Verileri Boyutu	maks. 48 BAYT
Çıkış Verileri Boyutu	maks. 48 BYTE

Technology	
Signal type	Simple RFID interface
Number of channels	4
Sensor supply	0.5 A per channel, short-circuit proof
Simultaneity factor	1
Transmission rate	115.2 kbps
Cable length	50 m
Elektrik yalıtımı	Electronics and field level isolated via optocouplers

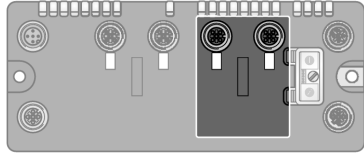
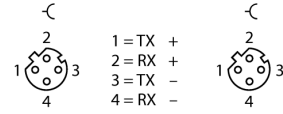
Boyutlar	168 x 71 x 32.5mm
Montaj	2 x 5,4 mm delik çapları, 1,7 Nm tork
Ağırlık	530 ± 20 g
Housing material	Glass fiber reinforced nylon, nickel-plated connector
Muhafaza rengi	siyah
Material screw	nikel kaplamalı pirinç
Material label	Polikarbonat kaplamalı polyester
Zemin etiketi malzemesi	Nickel-plated brass
IP Derecesi	IP67 IP69K
Ortam sıcaklığı	-40...+70 °C
Saklama sıcaklığı	-40...+85 °C
Bağıl nem	%15...95, yoğunlaşmaz
Titreşim testi	IEC 61131-2 uyarınca
- up to 20 g (at 10 up to 150 Hz)	For mounting on base plate or machinery
Darbe testi	acc. to IEC 61131-2
Elektromanyetik uyumluluk	IEC 61131-2 uyarınca
MTTF	104 yılı
MTTF notu	SN 29500'e uygun (Ed. 99) 20 °C
Onaylar ve sertifikalar	CE, cULus, Class I Div.2



Ethernet

Fieldbus kablosu (örnek): RSSD RSSD 441-2M Tanıtım numarası U-02482 veya RSSD-RSSD-441-2M/S2174 Tanıtım numarası 6914218

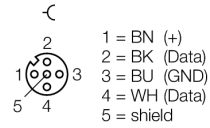
Pim atama (M12, D kodlu)



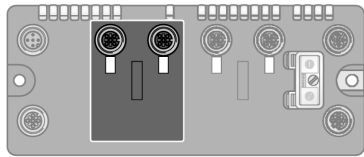
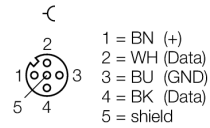
Slot 1: RFID Channels

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

Konektörler .../S2500

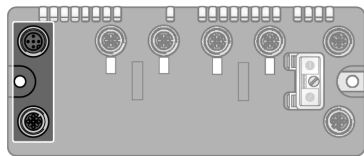


.../S2501 Connectors



Slot 2: RFID Channels

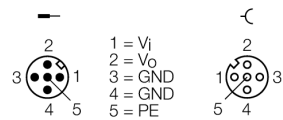
Bkz. yuva 1



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

Tel ataması



Status: Station LED

LED	Color	Status	Description
IO'lar		KAPALI	Güç kapalı
	KIRMIZI	AÇIK	Yetersiz güç beslemesi
	KIRMIZI	YANIP SÖNÜYOR (1Hz)	Sapma istasyonu konfigürasyonu
	KIRMIZI	YANIP SÖNÜYOR (4 Hz)	Modül veri yolu iletişimi yok
	YEŞİL	AÇIK	İstasyon TAMAM
	YEŞİL	YANI SÖNÜYOR	Kuvvet modu etkin
VERİ YOLU		KAPALI	Güç Kapalı
	YEŞİL	AÇIK	Merkeze Bağlı
	YEŞİL	YANIP SÖNÜYOR	Hazır
	KIRMIZI	AÇIK	Hata
	KIRMIZI	YANIP SÖNÜYOR	WINK
	SARI	AÇIK	DHCP/BOOTP Araması
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, slot 1

LED	Color	Status	Description
D1 *		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

* D1 LED also indicates gateway diagnostic

I/O LED Status Slot 2

LED	Colour	Status	Description
D2 *		OFF	Diagnostic disabled
	RED	ON	Station / module bus communication failure
	RED	FLASHING (0.5Hz)	Summarized diagnostic
RW0 / RW1		KAPALI	Etiket yok, aktif tanılama yok
	YEŞİL	AÇIK	Etiket mevcut
	YEŞİL	YANIP SÖNÜYOR (2 Hz)	Aktif etiketten/etikete veri aktarımı
	KIRMIZI	AÇIK	Okuma/yazma kafası hatası
	KIRMIZI	YANIP SÖNÜYOR (2 Hz)	Alıcı-verici beslemesinde kısa devre

* The D2 LED also indicates gateway diagnosis

Process Data Mapping of the Single Protocols

EtherNet/IP™ I/O and Diagnostic Data Mapping

INPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
RFID 1 ₀	0	Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	1	Error Cat. (Category Code)							
	2	Error Desc. (Description Code)							
	3	-	-	-	-	-	-	-	-
	4...11	Read Data (8 Byte)							
RFID 1 ₁	12	Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	13	Error Cat. (Category Code)							
	14	Error Desc. (Description Code)							
	15	-	-	-	-	-	-	-	-
	16...23	Read Data (8 Byte)							
RFID 2 ₀	24	Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	25	Error Cat. (Category Code)							
	26	Error Desc. (Description Code)							
	27	-	-	-	-	-	-	-	-
	28...35	Read Data (8 Byte)							
RFID 2 ₁	36	Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	37	Error Cat. (Category Code)							
	38	Error Desc. (Description Code)							
	39	-	-	-	-	-	-	-	-
	40...47	Read Data (8 Byte)							
Diagnose	48	Modulnummer meldet Diagnose Daten							
	49	Austauschstation	-	Diagnose aktiv	-	-	-	-	-
Steckplatz X (Ref. Byte 48)	50	-	-	-	-	-	RFID X ₀ Trans. PS Off	-	-
	51	-	-	-	-	RFID X ₀ Trans. PS Error	-	-	RFID X ₀ Trans. Hardware-Fehler
	52	-	-	-	-	-	RFID X ₁ Trans. PS Off	-	-
	53	-	-	-	-	RFID X ₁ Trans. PS Error	-	-	RFID X ₁ Trans. Hardware-Fehler
OUTPUT	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
RFID 1 ₀	0	Transceiver	Next	TAG ID	Read	Write	TAG Info	Trans. Info.	Reset
	1	-	-	-	-	-	Byte Count 2	Byte Count 1	Byte Count 0
	2	Address High Byte (MSB)							
	3	Address Low Byte (LSB)							
	4...11	Write Data (8 Byte)							
RFID 1 ₁	12	Transceiver	Next	TAG ID	Read	Write	TAG Info	Trans. Info.	Reset
	13	-	-	-	-	-	Byte Count 2	Byte Count 1	Byte Count 0
	14	Address High Byte (MSB)							
	15	Address Low Byte (LSB)							
	16...23	Write Data (8 Byte)							
RFID 2 ₀	24	Transceiver	Next	TAG ID	Read	Write	TAG Info	Trans. Info.	Reset
	25	-	-	-	-	-	Byte Count 2	Byte Count 1	Byte Count 0
	26	Address High Byte (MSB)							
	27	Address Low Byte (LSB)							
	28...35	Write Data (8 Byte)							
RFID 2 ₁	36	Transceiver	Next	TAG ID	Read	Write	TAG Info	Trans. Info.	Reset
	37	-	-	-	-	-	Byte Count 2	Byte Count 1	Byte Count 0
	38	Address High Byte (MSB)							
	39	Address Low Byte (LSB)							
	40...47	Write Data (8 Byte)							

* Modulün her iki yuvası da tanımlanabilir durumdaysa sürekli tanılama ekranı (programlı tanılama) her 125 ms'de bir yuva 1 ile yuva 2 arasında geçiş yapar.

Modbus TCP Register Mapping

	REG	Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Eingänge (RO)	0x0000	Error Cat. (Category Code)								Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	0x0001	-	-	-	-	-	-	-	-	Error Desc. (Description Code)							

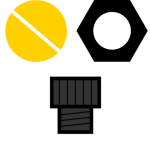
	0x0002 ... 0x0005	Read Data (4 Words)															
	0x0006	Error Cat. (Category Code)								Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	0x0007	-	-	-	-	-	-	-	-	Error Desc. (Description Code)							
	0x0008 ... 0x000B	Read Data (4 Words)															
	0x000C	Error Cat. (Category Code)								Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	0x000D	-	-	-	-	-	-	-	-	Error Desc. (Description Code)							
	0x000E ... 0x0011	Read Data (4 Words)															
	0x0012	Error Cat. (Category Code)								Done	Busy	Fehler	Trans. Conn.	Trans. On	TP	TFR	-
	0x0013	-	-	-	-	-	-	-	-	Error Desc. (Description Code)							
	0x0014 ... 0x0017	Read Data (4 Words)															
Status (RO)	0x0018	-	FCE	-	-	CFG	COM	VI low	-	VO low	-	-	-	-	-	-	DIA
Diag. (RO)	0x0019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S2 DIA	S1 DIA
Ausgänge (RW)	0x0800	-	-	-	-	-	Byte CNT 2	Byte CNT 1	Byte CNT 0	Trans.	Next	TAG ID	Read	Write	TAG In- fo	Trans. Info.	Reset
	0x0801	Address															
	0x0802 ... 0x0805	Write Data (4 Words)															
	0x0806	-	-	-	-	-	Byte CNT 2	Byte CNT 1	Byte CNT 0	Trans.	Next	TAG ID	Read	Write	TAG In- fo	Trans. Info.	Reset
	0x0807	Address															
	0x0808 ... 0x080B	Write Data (4 Words)															
	0x080C	-	-	-	-	-	Byte CNT 2	Byte CNT 1	Byte CNT 0	Trans.	Next	TAG ID	Read	Write	TAG In- fo	Trans. Info.	Reset
	0x080D	Address															
	0x080E ... 0x0811	Write Data (4 Words)															
	0x0812	-	-	-	-	-	Byte CNT 2	Byte CNT 1	Byte CNT 0	Trans.	Next	TAG ID	Read	Write	TAG In- fo	Trans. Info.	Reset
	0x0813	Address															
	0x0814 ... 0x0817	Write Data (4 Words)															
I/O Diag (RO)	0xA000	-	-	-	-	PS RFID 1 ₀	-	-	HW RFID 1 ₀	-	-	-	-	-	SCO RFID 1 ₀	-	-
	0xA001	-	-	-	-	PS RFID 1 ₁	-	-	HW RFID 1 ₁	-	-	-	-	-	SCO RFID 1 ₁	-	-
	0xA002	-	-	-	-	PS RFID 2 ₀ PS RFID 1 ₀	-	-	HW RFID 2 ₀	-	-	-	-	-	SCO RFID 2 ₀	-	-
	0xA003	-	-	-	-	PS RFID 2 ₁	-	-	HW RFID 2 ₁	-	-	-	-	-	SCO RFID 2 ₁	-	-

PROFINET® Process Data

	BYTE	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Eingänge	0	RFID 1 ₀ Done	RFID 1 ₀ Busy	RFID 1 ₀ Fehler	RFID 1 ₀ Trans. Conn.	RFID 1 ₀ Trans. On	RFID 1 ₀ TP	RFID 1 ₀ TFR	-
	1	RFID 1 ₀ Error Cat. (Category Code)							
	2	RFID 1 ₀ Error Desc. (Description Code)							
	3	-	-	-	-	-	-	-	-
	4...11	RFID 1 ₀ Read Data (8 Byte)							
	12	RFID 1 ₁ Done	RFID 1 ₁ Busy	RFID 1 ₁ Fehler	RFID 1 ₁ Trans. Conn.	RFID 1 ₁ Trans. On	RFID 1 ₁ TP	RFID 1 ₁ TFR	-
	13	RFID 1 ₁ Error Cat. (Category Code)							
	14	RFID 1 ₁ Error Desc. (Description Code)							
	15	-	-	-	-	-	-	-	-
	16...23	RFID 1 ₁ Read Data (8 Byte)							
	24	RFID 2 ₀ Done	RFID 2 ₀ Busy	RFID 2 ₀ Fehler	RFID 2 ₀ Trans. Conn.	RFID 2 ₀ Trans. On	RFID 2 ₀ TP	RFID 2 ₀ TFR	-

Outputs	25	RFID 2, Error Cat. (Category Code)						
	26	RFID 2, Error Desc. (Description Code)						
	27	-	-	-	-	-	-	-
	28...35	RFID 2, Read Data (8 Byte)						
	36	RFID 2, Done	RFID 2, Busy	RFID 2, Fehler Conn.	RFID 2, Trans. On	RFID 2, Trans. TP	RFID 2, TFR	-
	37	RFID 2, Error Cat. (Category Code)						
	38	RFID 2, Error Desc. (Description Code)						
	39	-	-	-	-	-	-	-
	40...47	RFID 2, Read Data (8 Byte)						
	0	RFID 1, Transceiver	RFID 1, Next	RFID 1, TAG ID	RFID 1, Read	RFID 1, Write	RFID 1, TAG Info	RFID 1, Trans. Info.
	1	-	-	-	-	-	RFID 1, Byte Count 2	RFID 1, Byte Count 1
	2	RFID 1, Address High Byte (MSB)						
	3	RFID 1, Address Low Byte (LSB)						
	4...11	RFID 1, Write Data (8 Byte)						
	12	RFID 1, Transceiver	RFID 1, Next	RFID 1, TAG ID	RFID 1, Read	RFID 1, Write	RFID 1, TAG Info	RFID 1, Trans. Info.
	13	-	-	-	-	-	RFID 1, Byte Count 2	RFID 1, Byte Count 1
	14	RFID 1, Address High Byte (MSB)						
	15	RFID 1, Address Low Byte (LSB)						
	16...21	RFID 1, Write Data (8 Byte)						
	24	RFID 2, Transceiver	RFID 2, Next	RFID 2, TAG ID	RFID 2, Read	RFID 2, Write	RFID 2, TAG Info	RFID 2, Trans. Info.
	25	-	-	-	-	-	RFID 2, Byte Count 2	RFID 2, Byte Count 1
	26	RFID 2, Address High Byte (MSB)						
	27	RFID 2, Address Low Byte (LSB)						
	28...33	RFID 2, Write Data (8 Byte)						
	36	RFID 2, Transceiver	RFID 2, Next	RFID 2, TAG ID	RFID 2, Read	RFID 2, Write	RFID 2, TAG Info	RFID 2, Trans. Info.
	37	-	-	-	-	-	RFID 2, Byte Count 2	RFID 2, Byte Count 1
	38	RFID 2, Address High Byte (MSB)						
	39	RFID 2, Address Low Byte (LSB)						
	40...47	RFID 2, Write Data (8 Byte)						

Aksesuarlar

Tip kodu	İdent no.		Ölçekli çizim
LOCK-EURO-C	A0885	Locking guard for straight eurofast™ C-body connectors (RKC, RKCVC, RSC, RSCV) in a Class I, Division 2 installations	
LOCK-EURO-C (10/BAG)	A0886	Locking guard for straight eurofast™ C-body connectors (RKC, RKCVC, RSC, RSCV) in a Class I, Division 2 installations	