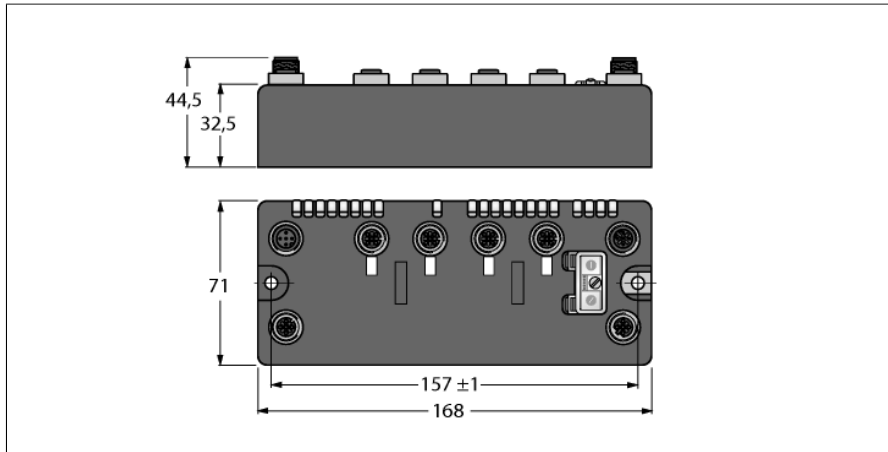


# BL compact Multiprotokoll Station für Industrial Ethernet Interface zum Anschluss von 4 BL Ident Schreib- Leseköpfen (HF/UHF) BLCEN-4M12LT-2RFID-S-2RFID-S



|                                       |                                                                                                                                                |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Typ                                   | BLCEN-4M12LT-2RFID-S-2RFID-S                                                                                                                   |
| Ident-No.                             | 6811453                                                                                                                                        |
| Nennsystemspannung                    | 24 VDC                                                                                                                                         |
| Systemversorgung                      | über Hilfsspannung                                                                                                                             |
| Anschlussstechnik Spannungsversorgung | 2 x M12, 5-polig                                                                                                                               |
| Zulässiger Bereich Vi                 | 18...30 VDC                                                                                                                                    |
| Nennstrom Vi                          | 175 mA                                                                                                                                         |
| Max. Strom Vi                         | 2 A                                                                                                                                            |
| Übertragungsrate Feldbus              | 10/100 Mbit/s                                                                                                                                  |
| Einstellung Übertragungsrate          | automatische Erkennung                                                                                                                         |
| Adressbereich Feldbus                 | 1...92<br>0 (192.168.1.254)<br>93 (BootP)<br>94 (DHCP)<br>95 (PGM)<br>96 (PGM-DHCP) *Empfehlung für PROFINET<br>97...98 (herstellerspezifisch) |
| Adressierung Feldbus                  | 2 dez. Drehkodierschalter                                                                                                                      |
| Anschlussstechnik Feldbus             | 2 x M12<br>4-polig, D-kodiert                                                                                                                  |
| Protokollerkennung                    | automatisch                                                                                                                                    |
| Webserver                             | integriert                                                                                                                                     |
| Serviceschnittstelle                  | Ethernet                                                                                                                                       |
| Vendor ID                             | 48                                                                                                                                             |
| Produkt Typ                           | 12                                                                                                                                             |
| Produkt Code                          | 11453                                                                                                                                          |

- On-Machine™ kompakte Feldbus I/O Blocks
- EtherNet/IP, Modbus TCP oder PROFINET Device
- Integrierter Ethernet Switch
- 10/100 MBit/s
- Zwei 4-polige, D-kodierte M12-Steckverbinder zum Feldbusanschluss
- 2 Drehcodierschalter für Teilnehmer-Adresse
- IP69K
- M12 I/O Steckplätze
- LEDs zur Anzeige von Status und Diagnose
- Elektronik über Optokoppler galvanisch von der Feldebene getrennt
- Einfaches RFID Interface
- Anschluss von 4 BL Ident Schreib- Leseköpfen
- Max. Kabellänge 50 m

|                              |                                                |
|------------------------------|------------------------------------------------|
| <b>Modbus TCP</b>            |                                                |
| Adressierung                 | Static IP, BOOTP, DHCP                         |
| Unterstützte Function Codes  | FC1, FC2, FC3, FC4, FC5, FC6, FC15, FC16, FC23 |
| Anzahl TCP Verbindungen      | 6                                              |
| Anzahl Eingangsdaten (PAE)   | max. 26 Register                               |
| Input Register Startadresse  | 0 (0x0000 hex)                                 |
| Anzahl Ausgangsdaten (PAA)   | max. 24 Register                               |
| Output Register Startadresse | 2048 (0x0800 hex)                              |

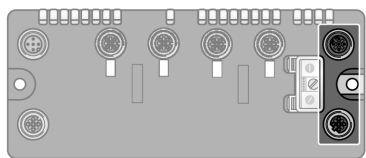
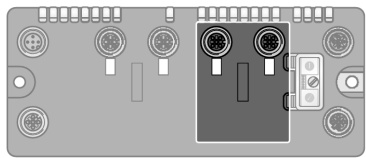
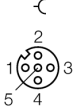
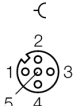
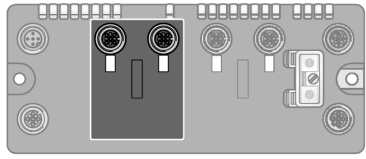
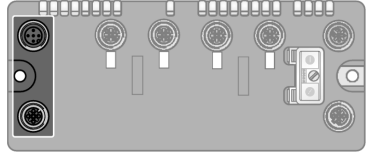
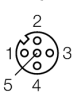
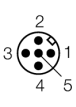
|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>EtherNet/IP</b>              |                                 |
| Adressierung                    | gemäß EtherNet/IP-Spezifikation |
| Device Level Ring (DLR)         | unterstützt                     |
| Class 1 Verbindungen (CIP)      | 6                               |
| Input Assembly Instance         | 103                             |
| Anzahl Eingangsdaten (PAE)      | 27 INT                          |
| Output Assembly Instance        | 104                             |
| Anzahl Ausgangsdaten (PAA)      | 24 INT                          |
| Configuration Assembly Instance | 106                             |
| Configuration Size              | 0                               |
| Comm Format                     | Data - INT                      |

|                                 |                               |
|---------------------------------|-------------------------------|
| <b>PROFINET</b>                 |                               |
| Adressierung                    | DCP                           |
| Konformitätsklasse              | B (RT)                        |
| MinCycleTime                    | 1 ms                          |
| Diagnose                        | gemäß PROFINET Alarm Handling |
| Topologie Erkennung             | unterstützt                   |
| Automatische Adressierung       | unterstützt                   |
| Media Redundancy Protocol (MRP) | unterstützt                   |
| Anzahl Eingangsdaten (PAE)      | max. 48 BYTE                  |
| Anzahl Ausgangsdaten (PAA)      | max. 48 BYTE                  |

|                         |                                                            |
|-------------------------|------------------------------------------------------------|
| <b>Technologie</b>      |                                                            |
| Signalart               | Simple RFID Interface                                      |
| Anzahl der Kanäle       | 4                                                          |
| Sensorversorgung        | 0,5 A pro Kanal, kurzschlussfest                           |
| Gleichzeitigkeitsfaktor | 1                                                          |
| Übertragungsrate        | 115,2 kBit/s                                               |
| Leitungslänge           | 50 m                                                       |
| Potenzialtrennung       | Trennung von Elektronik und Feldebene via Opto-<br>koppler |

|                                    |                                                        |
|------------------------------------|--------------------------------------------------------|
| Abmessungen                        | 168 x 71 x 32.5 mm                                     |
| Montage                            | 2 × 5.4 mm Lochmaß, 1.7 Nm Drehmoment                  |
| Gewicht                            | 530 ± 20 g                                             |
| Gehäusematerial                    | Nylon glasfaserverstärkt, Stecker nickelbeschichtet    |
| Gehäusefarbe                       | schwarz                                                |
| Material Schraube                  | nickelbeschichtetes Messing                            |
| Material Label                     | Polyester with polycarbonate overlay                   |
| Material Etikett Erde              | nickelbeschichtetes Messing                            |
| Schutzart                          | IP67<br>IP69K                                          |
| Umgebungstemperatur                | -40...+70 °C                                           |
| Lagertemperatur                    | -40...+85 °C                                           |
| Relative Feuchte                   | 15...95 %, nicht kondensierend                         |
| Schwingungsprüfung                 | gemäß IEC 61131-2                                      |
| - bis 20 g (bei 10 bis 150 Hz)     | Bei Festmontage auf Trägerplatte oder Maschinenkörper. |
| Schockprüfung                      | gemäß IEC 61131-2                                      |
| Elektromagnetische Verträglichkeit | gemäß IEC 61131-2                                      |
| MTTF                               | 104 Jahre                                              |
| MTTF Hinweis                       | nach SN 29500 (Ed. 99) 20 °C                           |
| Zulassungen und Zertifikate        | CE, cULus, Class I Div.2                               |

Pinbelegung und Anschlussbilder

|                                                                                     |                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Ethernet</b></p> <p>Feldbuskabel (IP67 Beispiel): □ RSSD RSSD 441-2M □ Ident-No. U-02482 □ oder □ RSSD-RSSD-441-2M/S2174 □ Ident-No. 6914218</p>                  | <p>Pinbelegung (M12, D-kodiert)</p> <div></div> <div><div>1 = TX +<br/>2 = RX +<br/>3 = TX -<br/>4 = RX -</div><div>1 = TX +<br/>2 = RX +<br/>3 = TX -<br/>4 = RX -</div></div>                                                                                           |
|    | <p><b>Slot 1: RFID Kanäle</b></p> <p>Verbindungskabel (Beispiel): □ RK 4.5T-2-RS 4.5T/S2501 □ Ident-No. U3-01243 □ oder □ RK4.5T-2-RS4.5T/S2500 □ Ident-No. 6699200</p> | <p>Steckverbinder .../S2500</p> <div><div>1 = BN (+)<br/>2 = BK (Data)<br/>3 = BU (GND)<br/>4 = WH (Data)<br/>5 = Schirm</div></div> <p>Steckverbinder .../S2501</p> <div><div>1 = BN (+)<br/>2 = WH (Data)<br/>3 = BU (GND)<br/>4 = BK (Data)<br/>5 = Schirm</div></div> |
|  | <p><b>Slot 2: RFID Kanäle</b></p> <p>Siehe Steckplatz 1</p>                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|  | <p><b>Hilfsenergie</b></p> <p>Verbindungskabel (Beispiel): □ RKC 4.4T-2-RSC 4.4T □ Ident-No. U5264 □ oder □ RKC4.4T-2-RSC4.4T/TEL □ Ident-No. 6625208</p>               | <p>Pinbelegung</p> <div></div> <div><div>1 = Vi<br/>2 = Vo<br/>3 = GND<br/>4 = GND<br/>5 = PE</div><div>1 = Vi<br/>2 = Vo<br/>3 = GND<br/>4 = GND<br/>5 = PE</div></div>                                                                                              |

**Status: Stations-LED**

| LED     | Farbe  | Status          | Beschreibung                      |
|---------|--------|-----------------|-----------------------------------|
| IOs     |        | AUS             | Keine Spannungsversorgung         |
|         | ROT    | AN              | Spannungsversorgung unzureichend  |
|         | ROT    | BLINKEND (1 Hz) | Abweichende Stationskonfiguration |
|         | ROT    | BLINKEND (4 Hz) | Keine Modulbus-Kommunikation      |
|         | GRÜN   | AN              | Station OK                        |
|         | GRÜN   | BLINKEND        | Force Mode aktiv                  |
| BUS     |        | AUS             | Power Off                         |
|         | GRÜN   | An              | Connected to Master               |
|         | GRÜN   | BLINKEND        | Betriebsbereit                    |
|         | ROT    | An              | Fehler                            |
|         | ROT    | BLINKEND        | WINK                              |
|         | YELLOW | An              | DHCP/BOOTP Search                 |
| LNK/ACT |        | OFF             | No Link                           |
|         | GREEN  | ON              | Link                              |
|         | GREEN  | FLASHING        | Traffic                           |
|         | YELLOW | ON              | 100 Mbit Linked                   |

**Status: I/O-LED, Slot 1**

| LED       | Farbe | Status           | Beschreibung                                                 |
|-----------|-------|------------------|--------------------------------------------------------------|
| D1 *      |       | AUS              | Keine Diagnose aktiv                                         |
|           | ROT   | AN               | Stations / Modulbus Kommunikations Fehler                    |
|           | ROT   | BLINKEND (0.5Hz) | Sammeldiagnose                                               |
| RW0 / RW1 |       | AUS              | Kein Tag vorhanden, keine Diagnose aktiv                     |
|           | GRÜN  | AN               | Tag vorhanden                                                |
|           | GRÜN  | BLINKEND (2 Hz)  | Datenaustausch mit dem Tag aktiv                             |
|           | ROT   | AN               | Schreib- Lesekopf Fehler                                     |
|           | ROT   | BLINKEND (2 Hz)  | Kurzschluss in der Spannungsversorgung vom Schreib- Lesekopf |

\* Die „D1“ LED signalisiert auch Gateway Diagnose

**Status: I/O-LED, Slot 2**

| LED       | Farbe | Status           | Beschreibung                              |
|-----------|-------|------------------|-------------------------------------------|
| D2 *      |       | AUS              | Keine Diagnose aktiv                      |
|           | ROT   | AN               | Stations / Modulbus Kommunikations Fehler |
|           | ROT   | BLINKEND (0.5Hz) | Sammeldiagnose                            |
| RW0 / RW1 |       | aus              | Kein Tag vorhanden, keine aktive Diagnose |
|           | GRÜN  | An               | Tag vorhanden                             |
|           | GRÜN  | BLINKEND (2 Hz)  | Datenübertragung vom/zum Tag aktiv        |
|           | ROT   | An               | Fehler im Schreib-Lesekopf                |
|           | ROT   | BLINKEND (2 Hz)  | Kurzschluss in der Transceiver-Versorgung |

\* Die „D2“ LED signalisiert auch Gateway Diagnose

# Prozessdaten Mapping der einzelnen Protokolle

## EtherNet/IP™ I/O und Diagnosedaten Mapping

| INPUT                          | BYTE    | Bit 7                             | Bit 6 | Bit 5          | Bit 4        | Bit 3                                  | Bit 2                                | Bit 1        | Bit 0                                         |
|--------------------------------|---------|-----------------------------------|-------|----------------|--------------|----------------------------------------|--------------------------------------|--------------|-----------------------------------------------|
| RFID 1 <sub>0</sub>            | 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 <sub>1</sub>            | 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 <sub>0</sub>            | 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 <sub>1</sub>            | 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<br>(Ref. Byte 48) | 50      | -                                 | -     | -              | -            | -                                      | RFID X <sub>0</sub><br>Trans. PS Off | -            | -                                             |
|                                | 51      | -                                 | -     | -              | -            | RFID X <sub>0</sub><br>Trans. PS Error | -                                    | -            | RFID X <sub>0</sub><br>Trans. Hardware-Fehler |
|                                | 52      | -                                 | -     | -              | -            | -                                      | RFID X <sub>1</sub><br>Trans. PS Off | -            | -                                             |
|                                | 53      | -                                 | -     | -              | -            | RFID X <sub>1</sub><br>Trans. PS Error | -                                    | -            | RFID X <sub>1</sub><br>Trans. Hardware-Fehler |
| OUTPUT                         | BYTE    | Bit 7                             | Bit 6 | Bit 5          | Bit 4        | Bit 3                                  | Bit 2                                | Bit 1        | Bit 0                                         |
| RFID 1 <sub>0</sub>            | 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 <sub>1</sub>            | 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 <sub>0</sub>            | 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 <sub>1</sub>            | 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)               |       |                |              |                                        |                                      |              |                                               |

\* Sind beide Slots des Moduls diagnosefähig, dann wechselt die Anzeige der durchlaufenden Diagnose (Scheduled Diagnostic) alle 125 ms zwischen Slot 1 und 2.

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

**PROFINET® Process Data**

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

|          |         |                                        |                             |                      |                   |               |                      |                      |                      |
|----------|---------|----------------------------------------|-----------------------------|----------------------|-------------------|---------------|----------------------|----------------------|----------------------|
|          | 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, 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)             |                             |                      |                   |               |                      |                      |                      |
| Ausgänge | 0       | RFID 1, Transceiver                    | RFID 1, Next                | RFID 1, TAG ID       | RFID 1, lesen     | RFID 1, Write | RFID 1, TAG Info     | RFID 1, Trans. Info. | RFID 1, Reset        |
|          | 1       | -                                      | -                           | -                    | -                 | -             | RFID 1, Byte Count 2 | RFID 1, Byte Count 1 | RFID 1, Byte Count 0 |
|          | 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, lesen     | RFID 1, Write | RFID 1, TAG Info     | RFID 1, Trans. Info. | RFID 1, Reset        |
|          | 13      | -                                      | -                           | -                    | -                 | -             | RFID 1, Byte Count 2 | RFID 1, Byte Count 1 | RFID 1, Byte Count 0 |
|          | 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, lesen     | RFID 2, Write | RFID 2, TAG Info     | RFID 2, Trans. Info. | RFID 2, Reset        |
|          | 25      | -                                      | -                           | -                    | -                 | -             | RFID 2, Byte Count 2 | RFID 2, Byte Count 1 | RFID 2, Byte Count 0 |
|          | 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, lesen     | RFID 2, Write | RFID 2, TAG Info     | RFID 2, Trans. Info. | RFID 2, Reset        |
|          | 37      | -                                      | -                           | -                    | -                 | -             | RFID 2, Byte Count 2 | RFID 2, Byte Count 1 | RFID 2, Byte Count 0 |
|          | 38      | RFID 2, Address High Byte (MSB)        |                             |                      |                   |               |                      |                      |                      |
|          | 39      | RFID 2, Address Low Byte (LSB)         |                             |                      |                   |               |                      |                      |                      |
|          |         | 40...47                                | RFID 2, Write Data (8 Byte) |                      |                   |               |                      |                      |                      |



Zubehör

| Typ                  | Ident-Nr. |                                                                                                                                           | Maßbild                                                                             |
|----------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| LOCK-EURO-C          | A0885     | Verriegelbare Schutzvorrichtung für gerade eurofast™ Stecker, Bauform C, (RKC, RKCVC, RSC, RSCVC), für Klasse I, Bereich 2 Installationen |  |
| LOCK-EURO-C (10/BAG) | A0886     | Verriegelbare Schutzvorrichtung für gerade eurofast™ Stecker, Bauform C, (RKC, RKCVC, RSC, RSCVC), für Klasse I, Bereich 2 Installationen |  |