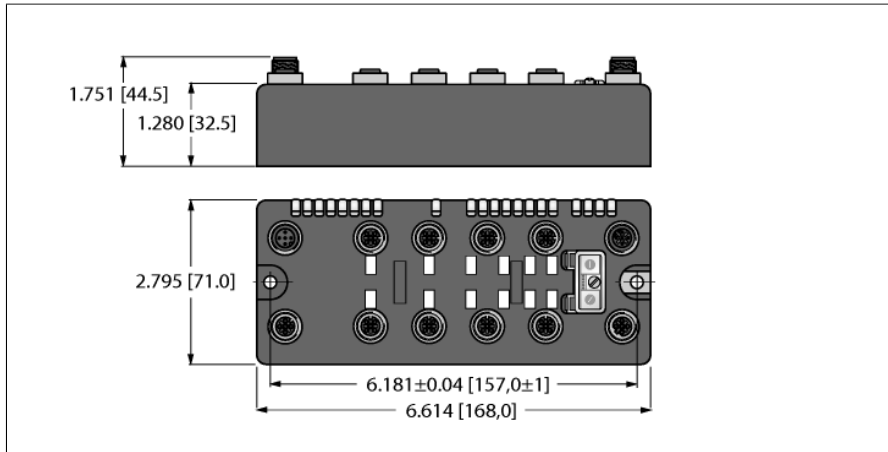


# BL compact™ multiprotocol fieldbus station for Industrial Ethernet

## 8 IO-Link Channels

### BLCEN-8M12LT-4IOL-4IOL



|                                |                                                                                                                                                  |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                           | BLCEN-8M12LT-4IOL-4IOL                                                                                                                           |
| ID                             | 6811500                                                                                                                                          |
| Nominal system voltage         | 24 VDC                                                                                                                                           |
| System power supply            | Via auxiliary power                                                                                                                              |
| Voltage supply connection      | 2 x M12, 5-pin                                                                                                                                   |
| Admissible range Vi            | 20...30 VDC                                                                                                                                      |
| Nominal current Vi             | 205 mA                                                                                                                                           |
| Max. current Vi                | 2 A                                                                                                                                              |
| Admissible range Vo            | 20...30 VDC                                                                                                                                      |
| Nominal current Vo             | 160 mA                                                                                                                                           |
| Max. current Vo                | 4 A                                                                                                                                              |
| Fieldbus transmission rate     | 10/100 Mbps                                                                                                                                      |
| Adjustment transmission rate   | Automatic detection                                                                                                                              |
| Fieldbus address range         | 1...92<br>0 (192.168.1.254)<br>93 (BOOTP)<br>94 (DHCP)<br>95 (PGM)<br>96 (PGM-DHCP) *recommended for PROFINET<br>97...98 (manufacturer specific) |
| Fieldbus addressing            | 2 decimally coded rotary switches                                                                                                                |
| Fieldbus connection technology | 2 x M12<br>4-pole, D-coded                                                                                                                       |
| Protocol detection             | automatic                                                                                                                                        |
| Web server                     | Integrated                                                                                                                                       |
| Service interface              | Ethernet                                                                                                                                         |
| Vendor ID                      | 48                                                                                                                                               |
| Product type                   | 12                                                                                                                                               |
| Product code                   | 11500                                                                                                                                            |

- On-machine Compact fieldbus I/O block
- EtherNet/IP™, Modbus® TCP, or PROFINET slave
- Integrated Ethernet Switch
- 10 Mbps / 100 Mbps supported
- Two 4-pole M12, D-coded, connectors for fieldbus connection
- 2 rotary switches for node address
- IP67, IP69K
- M12 I/O connectors
- LEDs indicating status and diagnostics
- Electronics galvanically separated from the field level via optocouplers

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Modbus TCP                    |                                                |
| Addressing                    | Static IP, BOOTP, DHCP                         |
| Supported function codes      | FC1, FC2, FC3, FC4, FC5, FC6, FC15, FC16, FC23 |
| Number of TCP connections     | 6                                              |
| Input Data Size               | max. 18 register                               |
| Input register start address  | 0 (0x0000 hex)                                 |
| Output Data Size              | max. 16 register                               |
| Output register start address | 2048 (0x0800 hex)                              |

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Ethernet/IP                     |                                   |
| Addressing                      | acc. to EtherNet/IP specification |
| Device Level Ring (DLR)         | supported                         |
| Class 1 connections (CIP)       | 6                                 |
| Input Assembly Instance         | 103                               |
| Input Data Size                 | 21 INT                            |
| Output Assembly Instance        | 104                               |
| Output Data Size                | 16 INT                            |
| Configuration Assembly Instance | 106                               |
| Configuration Size              | 0                                 |
| Comm Format                     | Data - INT                        |

|                                 |                                 |
|---------------------------------|---------------------------------|
| PROFINET                        |                                 |
| Addressing                      | DCP                             |
| Conformance class               | B (RT)                          |
| MinCycleTime                    | 1 ms                            |
| Diagnostics                     | acc. to PROFINET alarm handling |
| Topology detection              | supported                       |
| Automatic addressing            | supported                       |
| Media Redundancy Protocol (MRP) | supported                       |
| Input Data Size                 | max. 32 BYTE                    |
| Output Data Size                | max. 32 BYTE                    |

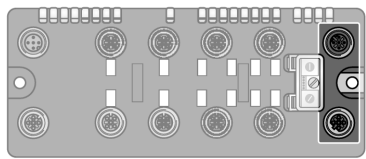
|                           |                                     |
|---------------------------|-------------------------------------|
| Digital inputs            |                                     |
| Input type                | PNP                                 |
| Low-level signal voltage  | < 5 V                               |
| High level signal voltage | > 11 V                              |
| Low level signal current  | < 1.5 mA DI / < 5mA SIO             |
| High level signal current | 2.1 ... 3.7 mA DI / 5 ... 11 mA SIO |

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Digital outputs                     |                                 |
| Output type                         | PNP                             |
| Sensor supply ( $V_{\text{SENS}}$ ) | 24 VDC                          |
| Output current per channel          | 0.5 A                           |
| Output voltage                      | 24 VDC                          |
| Output delay                        | 3 ms                            |
| Load type                           | resistive, inductive, lamp load |
| Load resistance, resistive          | > 48 $\Omega$                   |
| Load resistance, inductive          | < 1.2 H                         |
| Lamp load                           | < 3 W                           |
| Switching frequency, resistive      | < 200 Hz                        |
| Switching frequency, inductive      | < 2 Hz                          |
| Switching frequency, lamp load      | < 20 Hz                         |
| Short-circuit protection            | yes                             |

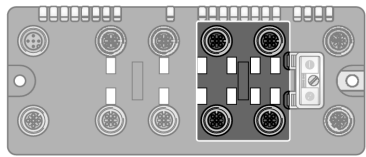
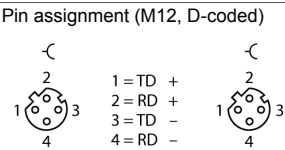
|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| Technology           |                                                           |
| Signal type          | IO-Link                                                   |
| Electrical isolation | isolation of electronics and field level via optocouplers |

|                                   |                                                    |
|-----------------------------------|----------------------------------------------------|
| Dimensions                        | 168 x 71 x 32.5 mm                                 |
| Mounting                          | 2 × 5.4 mm diameter holes, 1.7 Nm torque           |
| Weight                            | 620 ± 20 g                                         |
| Housing material                  | Glass-filled nylon, nickel plated brass connectors |
| Housing color                     | Black                                              |
| Material screw                    | Nickel-plated brass                                |
| Material label                    | Polyester with polycarbonate overlay               |
| Ground label material             | Nickel plated brass                                |
| Protection class                  | IP67<br>IP69K                                      |
| Ambient temperature               | -40...+70 °C                                       |
| Storage temperature               | -40...+85 °C                                       |
| Relative humidity                 | 15 to 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                        | according to IEC 61131-2                           |
| Electromagnetic compatibility     | Acc. to IEC 61131-2                                |
| MTTF                              | 92 years                                           |
| MTTF note                         | acc. to SN 29500 (Ed. 99) 20 °C                    |
| Approvals and certificates        | CE, cULus, Class I Div.2                           |

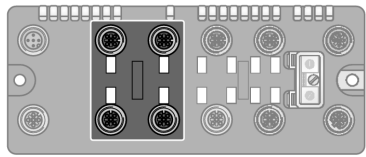
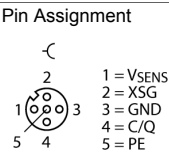
Pinning and wiring diagram



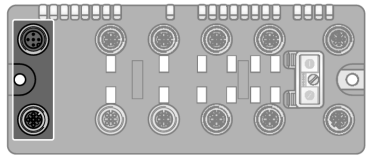
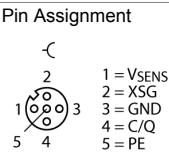
**Ethernet**  
Fieldbus cable (IP67 example): RSSD RSSD 441-2M ID number U-02482 or RSSD-RSSD-441-2M/S2174 ID number 6914218



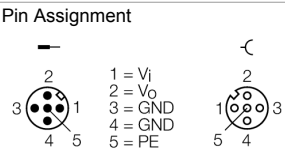
**Slot 1: IO-Link Channels**  
Extension cable (example): RK 4.4T-2-RS 4.4T ident-no. U2445 or RKC4.4T-2-RSC4.4T/TEL ident-no. 6625208



**Slot 2: IO-Link Channels**  
See slot 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



#### Station LED status

| LED     | Color  | Status            | Description                     |
|---------|--------|-------------------|---------------------------------|
| IOs     |        | OFF               | No power                        |
|         | RED    | ON                | Low power or station error      |
|         | RED    | FLASHING (1 Hz)   | I/O module configuration error  |
|         | RED    | FLASHING (4 Hz)   | No I/O module bus communication |
|         | GREEN  | ON                | Station ok                      |
|         | GREEN  | FLASHING          | Force mode active               |
| BUS     |        | OFF               | Power Off                       |
|         | GREEN  | ON                | Connected to Master             |
|         | GREEN  | FLASHING          | Ready                           |
|         | GREEN  | FLASHING 3x (1Hz) | ARGE Running                    |
|         | RED    | ON                | Error                           |
|         | RED    | FLASHING          | WINK                            |
|         | YELLOW | ON                | DHCP/BOOTP Search               |
| LNK/ACT |        | OFF               | No Link                         |
|         | GREEN  | ON                | Link                            |
|         | GREEN  | FLASHING          | Traffic                         |
|         | YELLOW | ON                | 100 Mbit Linked                 |

#### I/O LED status slot 1

| LED                                                       | Color | Status           | Description                                            |
|-----------------------------------------------------------|-------|------------------|--------------------------------------------------------|
| D1 *                                                      |       | OFF              | No diagnostics active                                  |
|                                                           | RED   | ON               | Station error/ module bus communication failure        |
|                                                           | RED   | FLASHING (0.5Hz) | Diagnostics active (Slot 1)                            |
| IO-Link Mode Channels<br>1 <sub>0</sub> ...1 <sub>3</sub> |       | OFF              | Channel Status x = "0" (OFF),<br>no diagnostics active |
|                                                           | GREEN | Flashing         | IO-Link communication, Process data valid              |
|                                                           | RED   | ON               | No IO-Link communication                               |
|                                                           |       | Flashing         | Process Data Invalid                                   |
| DI Mode Channels 1 <sub>0</sub> ...1 <sub>3</sub>         |       | OFF              | Channel Status x = "0" (OFF)                           |
|                                                           | GREEN | ON               | Channel Status x = "1" (ON)                            |
| XSG 1 <sub>0</sub> ...1 <sub>7</sub>                      |       | OFF              | Channel Status x = "0" (OFF)                           |
|                                                           | GREEN | ON               | Channel Status x = "1" (ON)                            |

\* D1 LED also indicates gateway diagnostics

#### I/O LED status slot 2

| LED                                                       | Color | Status           | Description                                            |
|-----------------------------------------------------------|-------|------------------|--------------------------------------------------------|
| D2 *                                                      |       | OFF              | No diagnostics active                                  |
|                                                           | RED   | ON               | Station error/ module bus communication failure        |
|                                                           | RED   | FLASHING (0.5Hz) | Diagnostics active (Slot 2)                            |
| IO-Link Mode Channels<br>2 <sub>0</sub> ...2 <sub>3</sub> |       | OFF              | Channel Status x = "0" (OFF),<br>no diagnostics active |
|                                                           | GREEN | Flashing         | IO-Link communication, Process data valid              |
|                                                           | RED   | ON               | No IO-Link communication                               |
|                                                           |       | Flashing         | Process Data Invalid                                   |
| DI Mode Channels 2 <sub>0</sub> ...2 <sub>3</sub>         |       | OFF              | Channel Status x = "0" (OFF)                           |
|                                                           | GREEN | ON               | Channel Status x = "1" (ON)                            |
| XSG 2 <sub>0</sub> ...2 <sub>7</sub>                      |       | OFF              | Channel Status x = "0" (OFF)                           |
|                                                           | GREEN | ON               | Channel Status x = "1" (ON)                            |

\* D2 LED also indicates gateway diagnostics

## Process Data Mapping of Each Protocol

### EtherNet/IP™ I/O & Diagnostics Data Mapping

| INPUT                 | BYTE    | Bit 7                                              | Bit 6                   | Bit 5                    | Bit 4                   | Bit 3                   | Bit 2                    | Bit 1                   | Bit 0                    |
|-----------------------|---------|----------------------------------------------------|-------------------------|--------------------------|-------------------------|-------------------------|--------------------------|-------------------------|--------------------------|
| Digital               | 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       | OCDO 1 <sub>7</sub>                                | OCDO 1 <sub>6</sub>     | OCDO 1 <sub>5</sub>      | OCDO 1 <sub>4</sub>     | DVS 1 <sub>3</sub>      | DVS 1 <sub>2</sub>       | DVS 1 <sub>1</sub>      | DVS 1 <sub>0</sub>       |
|                       | 2...15  | IO-Link Read Data (depends on parameter settings)  |                         |                          |                         |                         |                          |                         |                          |
|                       | 16      | DI 2 <sub>7</sub>                                  | DI 2 <sub>6</sub>       | DI 2 <sub>5</sub>        | DI 2 <sub>4</sub>       | DI 2 <sub>3</sub>       | DI 2 <sub>2</sub>        | DI 2 <sub>1</sub>       | DI 2 <sub>0</sub>        |
|                       | 17      | OCDO 2 <sub>7</sub>                                | OCDO 2 <sub>6</sub>     | OCDO 2 <sub>5</sub>      | OCDO 2 <sub>4</sub>     | DVS 2 <sub>3</sub>      | DVS 2 <sub>2</sub>       | DVS 2 <sub>1</sub>      | DVS 2 <sub>0</sub>       |
|                       | 18...31 | IO-Link Read Data (depends on parameter settings)  |                         |                          |                         |                         |                          |                         |                          |
| Diagnostics           | 32      | Module number reporting diagnostic data            |                         |                          |                         |                         |                          |                         |                          |
|                       | 33      | Replace Station                                    | -                       | Diagnostics Active       | -                       | -                       | -                        | -                       | -                        |
| Slot X (ref. Byte 32) | 34      | IOL X <sub>0</sub> EVT2                            | IOL X <sub>0</sub> EVTX | IOL X <sub>0</sub> PDINV | IOL X <sub>0</sub> HWER | IOL X <sub>0</sub> DSER | IOL X <sub>0</sub> CFGER | -                       | OCDO X <sub>0</sub>      |
|                       | 35      | IOL X <sub>0</sub> GENER                           | IOL X <sub>0</sub> OVL  | IOL X <sub>0</sub> VHIGH | IOL X <sub>0</sub> VLOW | IOL X <sub>0</sub> ULVE | IOL X <sub>0</sub> LLVU  | IOL X <sub>0</sub> OTMP | IOL X <sub>0</sub> PRMER |
|                       | 36      | IOL X <sub>1</sub> EVT2                            | IOL X <sub>1</sub> EVTX | IOL X <sub>1</sub> PDINV | IOL X <sub>1</sub> HWER | IOL X <sub>1</sub> DSER | IOL X <sub>1</sub> CFGER | -                       | OCDO X <sub>1</sub>      |
|                       | 37      | IOL X <sub>1</sub> GENER                           | IOL X <sub>1</sub> OVL  | IOL X <sub>1</sub> VHIGH | IOL X <sub>1</sub> VLOW | IOL X <sub>1</sub> ULVE | IOL X <sub>1</sub> LLVU  | IOL X <sub>1</sub> OTMP | IOL X <sub>1</sub> PRMER |
|                       | 38      | IOL X <sub>2</sub> EVT2                            | IOL X <sub>2</sub> EVTX | IOL X <sub>2</sub> PDINV | IOL X <sub>2</sub> HWER | IOL X <sub>2</sub> DSER | IOL X <sub>2</sub> CFGER | -                       | OCDO X <sub>2</sub>      |
|                       | 39      | IOL X <sub>2</sub> GENER                           | IOL X <sub>2</sub> OVL  | IOL X <sub>2</sub> VHIGH | IOL X <sub>2</sub> VLOW | IOL X <sub>2</sub> ULVE | IOL X <sub>2</sub> LLVU  | IOL X <sub>2</sub> OTMP | IOL X <sub>2</sub> PRMER |
|                       | 40      | IOL X <sub>3</sub> EVT2                            | IOL X <sub>3</sub> EVTX | IOL X <sub>3</sub> PDINV | IOL X <sub>3</sub> HWER | IOL X <sub>3</sub> DSER | IOL X <sub>3</sub> CFGER | -                       | OCDO X <sub>3</sub>      |
|                       | 41      | IOL X <sub>3</sub> GENER                           | IOL X <sub>3</sub> OVL  | IOL X <sub>3</sub> VHIGH | IOL X <sub>3</sub> VLOW | IOL X <sub>3</sub> ULVE | IOL X <sub>3</sub> LLVU  | IOL X <sub>3</sub> OTMP | IOL X <sub>3</sub> PRMER |
| OUTPUT                | BYTE    | Bit 7                                              | Bit 6                   | Bit 5                    | Bit 4                   | Bit 3                   | Bit 2                    | Bit 1                   | Bit 0                    |
| Digital               | 0       | DO 1 <sub>7</sub>                                  | DO 1 <sub>6</sub>       | DO 1 <sub>5</sub>        | DO 1 <sub>4</sub>       | -                       | -                        | -                       | -                        |
|                       | 1       | -                                                  | -                       | -                        | -                       | -                       | -                        | -                       | -                        |
|                       | 2...15  | IO-Link Write Data (depends on parameter settings) |                         |                          |                         |                         |                          |                         |                          |
|                       | 16      | DO 2 <sub>7</sub>                                  | DO 2 <sub>6</sub>       | DO 2 <sub>5</sub>        | DO 2 <sub>4</sub>       | -                       | -                        | -                       | -                        |
|                       | 17      | -                                                  | -                       | -                        | -                       | -                       | -                        | -                       | -                        |
|                       | 18...31 | IO-Link Write Data (depends on parameter settings) |                         |                          |                         |                         |                          |                         |                          |

\*The scheduled diagnostic information changes every 125 ms between Slot 1 and Slot 2, if both slots send active diagnostics.

#### Legend

|       |                            |       |                         |
|-------|----------------------------|-------|-------------------------|
| GENER | Common error               | EVT1  | Maintenance events      |
| VHIGH | Overvoltage                | HWER  | Hardware error          |
| ULVE  | Upper limit value exceeded | CFGER | Wrong or missing device |
| OTMP  | Overtemperature            | DVS   | Data Valid Signal       |
| EVT2  | Out of specification error | OC    | Over Current            |
| PDINV | Process input data invalid | DIAG  | Diagnostics             |
| DSER  | Data storage error         | DO    | Digital Output          |
| OVL   | Overload                   | DI    | Digital Input           |
| VLOW  | Undervoltage               | COM   | Communication Lost Bit  |
| LLVU  | Lower limit value underrun | CFG   | Configuration Error     |
| PRMER | Parameterization error     |       |                         |

### 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             |
|--------------|---------------------|---------------------------------------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Inputs (RO)  | 0x0000              | OCDO 1 <sub>7</sub>                               | OCDO 1 <sub>6</sub> | OCDO 1 <sub>5</sub> | OCDO 1 <sub>4</sub> | DVS 1 <sub>3</sub> | DVS 1 <sub>2</sub> | DVS 1 <sub>1</sub> | DVS 1 <sub>0</sub> | 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> |
|              | 0x0001...<br>0x0007 | IO-Link Read Data (depends on parameter settings) |                     |                     |                     |                    |                    |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |
|              | 0x0008              | OCDO 2 <sub>7</sub>                               | OCDO 2 <sub>6</sub> | OCDO 2 <sub>5</sub> | OCDO 2 <sub>4</sub> | DVS 2 <sub>3</sub> | DVS 2 <sub>2</sub> | DVS 2 <sub>1</sub> | DVS 2 <sub>0</sub> | DI 2 <sub>7</sub> | DI 2 <sub>6</sub> | DI 2 <sub>5</sub> | DI 2 <sub>4</sub> | DI 2 <sub>3</sub> | DI 2 <sub>2</sub> | DI 2 <sub>1</sub> | DI 2 <sub>0</sub> |
|              | 0x0009...<br>0x000F | IO-Link Read Data (depends on parameter settings) |                     |                     |                     |                    |                    |                    |                    |                   |                   |                   |                   |                   |                   |                   |                   |
| Status (RO)  | 0x0010              | -                                                 | FCE                 | -                   | -                   | CFG                | COM                | VI low             | VI high            | VO low            | VO high           | OCVI              | -                 | -                 | -                 | -                 | DIAG              |
| Diag. (RO)   | 0x0011              | -                                                 | -                   | -                   | -                   | -                  | -                  | -                  | -                  | -                 | -                 | -                 | -                 | -                 | -                 | S2 DIAG           | S1 DIAG           |
| Outputs (RW) | 0x0800              | -                                                 | -                   | -                   | -                   | -                  | -                  | -                  | -                  | DO 1 <sub>7</sub> | DO 1 <sub>6</sub> | DO 1 <sub>5</sub> | DO 1 <sub>4</sub> | -                 | -                 | -                 | -                 |

|                |                     |                                                    |                           |                             |                            |                            |                            |                            |                             |                            |                            |                             |                            |                            |                             |   |                         |
|----------------|---------------------|----------------------------------------------------|---------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|---|-------------------------|
|                | 0x0801...<br>0x0807 | IO-Link Write Data (depends on parameter settings) |                           |                             |                            |                            |                            |                            |                             |                            |                            |                             |                            |                            |                             |   |                         |
|                | 0x0808              | -                                                  | -                         | -                           | -                          | -                          | -                          | -                          | -                           | DO 2 <sub>7</sub>          | DO 2 <sub>6</sub>          | DO 2 <sub>5</sub>           | DO 2 <sub>4</sub>          |                            | -                           |   | -                       |
|                | 0x0809...<br>0x080F | IO-Link Write Data (depends on parameter settings) |                           |                             |                            |                            |                            |                            |                             |                            |                            |                             |                            |                            |                             |   |                         |
| I/O Diag. (RO) | 0xA000              | IOL 1 <sub>0</sub><br>GEN-<br>ER                   | IOL 1 <sub>0</sub><br>OVL | IOL 1 <sub>0</sub><br>VHIGH | IOL 1 <sub>0</sub><br>VLOW | IOL 1 <sub>0</sub><br>ULVE | IOL 1 <sub>0</sub><br>LLVU | IOL 1 <sub>0</sub><br>OTMP | IOL 1 <sub>0</sub><br>PRMER | IOL 1 <sub>0</sub><br>EVT2 | IOL 1 <sub>0</sub><br>EVT1 | IOL 1 <sub>0</sub><br>PDINV | IOL 1 <sub>0</sub><br>HWER | IOL 1 <sub>0</sub><br>DSER | IOL 1 <sub>0</sub><br>CFGER | - | OC<br>DO 1 <sub>4</sub> |
|                | 0xA001              | IOL 1 <sub>1</sub><br>GEN-<br>ER                   | IOL 1 <sub>1</sub><br>OVL | IOL 1 <sub>1</sub><br>VHIGH | IOL 1 <sub>1</sub><br>VLOW | IOL 1 <sub>1</sub><br>ULVE | IOL 1 <sub>1</sub><br>LLVU | IOL 1 <sub>1</sub><br>OTMP | IOL 1 <sub>1</sub><br>PRMER | IOL 1 <sub>1</sub><br>EVT2 | IOL 1 <sub>1</sub><br>EVT1 | IOL 1 <sub>1</sub><br>PDINV | IOL 1 <sub>1</sub><br>HWER | IOL 1 <sub>1</sub><br>DSER | IOL 1 <sub>1</sub><br>CFGER | - | OC<br>DO 1 <sub>5</sub> |
|                | 0xA002              | IOL 1 <sub>2</sub><br>GEN-<br>ER                   | IOL 1 <sub>2</sub><br>OVL | IOL 1 <sub>2</sub><br>VHIGH | IOL 1 <sub>2</sub><br>VLOW | IOL 1 <sub>2</sub><br>ULVE | IOL 1 <sub>2</sub><br>LLVU | IOL 1 <sub>2</sub><br>OTMP | IOL 1 <sub>2</sub><br>PRMER | IOL 1 <sub>2</sub><br>EVT2 | IOL 1 <sub>2</sub><br>EVT1 | IOL 1 <sub>2</sub><br>PDINV | IOL 1 <sub>2</sub><br>HWER | IOL 1 <sub>2</sub><br>DSER | IOL 1 <sub>2</sub><br>CFGER | - | OC<br>DO 1 <sub>6</sub> |
|                | 0xA003              | IOL 1 <sub>3</sub><br>GEN-<br>ER                   | IOL 1 <sub>3</sub><br>OVL | IOL 1 <sub>3</sub><br>VHIGH | IOL 1 <sub>3</sub><br>VLOW | IOL 1 <sub>3</sub><br>ULVE | IOL 1 <sub>3</sub><br>LLVU | IOL 1 <sub>3</sub><br>OTMP | IOL 1 <sub>3</sub><br>PRMER | IOL 1 <sub>3</sub><br>EVT2 | IOL 1 <sub>3</sub><br>EVT1 | IOL 1 <sub>3</sub><br>PDINV | IOL 1 <sub>3</sub><br>HWER | IOL 1 <sub>3</sub><br>DSER | IOL 1 <sub>3</sub><br>CFGER | - | OC<br>DO 1 <sub>7</sub> |
|                | 0xA004              | IOL 2 <sub>0</sub><br>GEN-<br>ER                   | IOL 2 <sub>0</sub><br>OVL | IOL 2 <sub>0</sub><br>VHIGH | IOL 2 <sub>0</sub><br>VLOW | IOL 2 <sub>0</sub><br>ULVE | IOL 2 <sub>0</sub><br>LLVU | IOL 2 <sub>0</sub><br>OTMP | IOL 2 <sub>0</sub><br>PRMER | IOL 2 <sub>0</sub><br>EVT2 | IOL 2 <sub>0</sub><br>EVT1 | IOL 2 <sub>0</sub><br>PDINV | IOL 2 <sub>0</sub><br>HWER | IOL 2 <sub>0</sub><br>DSER | IOL 2 <sub>0</sub><br>CFGER | - | OC<br>DO 2 <sub>4</sub> |
|                | 0xA005              | IOL 2 <sub>1</sub><br>GEN-<br>ER                   | IOL 2 <sub>1</sub><br>OVL | IOL 2 <sub>1</sub><br>VHIGH | IOL 2 <sub>1</sub><br>VLOW | IOL 2 <sub>1</sub><br>ULVE | IOL 2 <sub>1</sub><br>LLVU | IOL 2 <sub>1</sub><br>OTMP | IOL 2 <sub>1</sub><br>PRMER | IOL 2 <sub>1</sub><br>EVT2 | IOL 2 <sub>1</sub><br>EVT1 | IOL 2 <sub>1</sub><br>PDINV | IOL 2 <sub>1</sub><br>HWER | IOL 2 <sub>1</sub><br>DSER | IOL 2 <sub>1</sub><br>CFGER | - | OC<br>DO 2 <sub>5</sub> |
|                | 0xA006              | IOL 2 <sub>2</sub><br>GEN-<br>ER                   | IOL 2 <sub>2</sub><br>OVL | IOL 2 <sub>2</sub><br>VHIGH | IOL 2 <sub>2</sub><br>VLOW | IOL 2 <sub>2</sub><br>ULVE | IOL 2 <sub>2</sub><br>LLVU | IOL 2 <sub>2</sub><br>OTMP | IOL 2 <sub>2</sub><br>PRMER | IOL 2 <sub>2</sub><br>EVT2 | IOL 2 <sub>2</sub><br>EVT1 | IOL 2 <sub>2</sub><br>PDINV | IOL 2 <sub>2</sub><br>HWER | IOL 2 <sub>2</sub><br>DSER | IOL 2 <sub>2</sub><br>CFGER | - | OC<br>DO 2 <sub>6</sub> |
|                | 0xA007              | IOL 2 <sub>3</sub><br>GEN-<br>ER                   | IOL 2 <sub>3</sub><br>OVL | IOL 2 <sub>3</sub><br>VHIGH | IOL 2 <sub>3</sub><br>VLOW | IOL 2 <sub>3</sub><br>ULVE | IOL 2 <sub>3</sub><br>LLVU | IOL 2 <sub>3</sub><br>OTMP | IOL 2 <sub>3</sub><br>PRMER | IOL 2 <sub>3</sub><br>EVT2 | IOL 2 <sub>3</sub><br>EVT1 | IOL 2 <sub>3</sub><br>PDINV | IOL 2 <sub>3</sub><br>HWER | IOL 2 <sub>3</sub><br>DSER | IOL 2 <sub>3</sub><br>CFGER | - | OC<br>DO 2 <sub>7</sub> |

#### PROFINET® Process Data

|         |         |                                                    |                     |                     |                     |                    |                    |                    |                    |
|---------|---------|----------------------------------------------------|---------------------|---------------------|---------------------|--------------------|--------------------|--------------------|--------------------|
| Inputs  | 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       | OCDO 1 <sub>7</sub>                                | OCDO 1 <sub>6</sub> | OCDO 1 <sub>5</sub> | OCDO 1 <sub>4</sub> | DVS 1 <sub>3</sub> | DVS 1 <sub>2</sub> | DVS 1 <sub>1</sub> | DVS 1 <sub>0</sub> |
|         | 2...15  | IO-Link Read Data (depends on parameter settings)  |                     |                     |                     |                    |                    |                    |                    |
|         | 16      | DI 2 <sub>7</sub>                                  | DI 2 <sub>6</sub>   | DI 2 <sub>5</sub>   | DI 2 <sub>4</sub>   | DI 2 <sub>3</sub>  | DI 2 <sub>2</sub>  | DI 2 <sub>1</sub>  | DI 2 <sub>0</sub>  |
|         | 17      | OCDO 2 <sub>7</sub>                                | OCDO 2 <sub>6</sub> | OCDO 2 <sub>5</sub> | OCDO 2 <sub>4</sub> | DVS 2 <sub>3</sub> | DVS 2 <sub>2</sub> | DVS 2 <sub>1</sub> | DVS 2 <sub>0</sub> |
|         | 18...31 | IO-Link Read Data (depends on parameter settings)  |                     |                     |                     |                    |                    |                    |                    |
| Outputs | 0       | DO 1 <sub>7</sub>                                  | DO 1 <sub>6</sub>   | DO 1 <sub>5</sub>   | DO 1 <sub>4</sub>   | -                  | -                  | -                  | -                  |
|         | 1       | -                                                  | -                   | -                   | -                   | -                  | -                  | -                  | -                  |
|         | 2...15  | IO-Link Write Data (depends on parameter settings) |                     |                     |                     |                    |                    |                    |                    |
|         | 16      | DO 2 <sub>7</sub>                                  | DO 2 <sub>6</sub>   | DO 2 <sub>5</sub>   | DO 2 <sub>4</sub>   | -                  | -                  | -                  | -                  |
|         | 17      | -                                                  | -                   | -                   | -                   | -                  | -                  | -                  | -                  |
|         | 18...31 | IO-Link Write Data (depends on parameter settings) |                     |                     |                     |                    |                    |                    |                    |

## Accessories

| Type code            | Ident-No. |                                                                                                                      | Dimension drawing                                                                   |
|----------------------|-----------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| LOCK-EURO-C          | A0885     | Locking guard for straight eurofast™ C-body connectors (RKC, RKCV, RSC, RSCV) in a Class I, Division 2 installations |  |
| LOCK-EURO-C (10/BAG) | A0886     | Locking guard for straight eurofast™ C-body connectors (RKC, RKCV, RSC, RSCV) in a Class I, Division 2 installations |  |