

## Technical data sheet

### Connection unit

Part no.: 50148810

MS 3048

#### Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Operation and display



For illustration purposes only



## Technical data

### Basic data

|              |           |
|--------------|-----------|
| Suitable for | BPS 3048i |
|--------------|-----------|

### Electrical data

|                         |                                  |
|-------------------------|----------------------------------|
| <b>Performance data</b> |                                  |
| Supply voltage $U_B$    | 18 ... 30 V, DC, (PELV, class 2) |

### Interface

|      |                    |
|------|--------------------|
| Type | PROFINET, PROFINET |
|------|--------------------|

### Service interface

|      |         |
|------|---------|
| Type | USB 2.0 |
|------|---------|

### Connection

|                       |            |
|-----------------------|------------|
| Number of connections | 4 Piece(s) |
|-----------------------|------------|

#### Connection 1

|                    |                   |
|--------------------|-------------------|
| Function           | PWR / SW IN / OUT |
| Type of connection | Connector         |
| Thread size        | M12               |
| Type               | Male              |
| Material           | Metal             |
| No. of pins        | 5 -pin            |
| Encoding           | A-coded           |

#### Connection 2

|                    |                |
|--------------------|----------------|
| Type of connection | USB            |
| Connector type     | USB 2.0 Mini-B |

#### Connection 3

|                    |               |
|--------------------|---------------|
| Function           | HOST / BUS IN |
| Type of connection | Connector     |
| Thread size        | M12           |
| Type               | Female        |
| Material           | Metal         |
| No. of pins        | 4 -pin        |
| Encoding           | D-coded       |

#### Connection 4

|                    |           |
|--------------------|-----------|
| Function           | BUS OUT   |
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Female    |
| Material           | Metal     |
| No. of pins        | 4 -pin    |
| Encoding           | D-coded   |

### Mechanical data

|                       |                           |
|-----------------------|---------------------------|
| Design                | Cubic                     |
| Dimension (W x H x L) | 64 mm x 33.5 mm x 43.5 mm |
| Housing material      | Metal                     |
| Metal housing         | Diecast aluminum          |
| Net weight            | 74 g                      |
| Housing color         | Red                       |

### Operation and display

|                 |            |
|-----------------|------------|
| Type of display | LED        |
| Number of LEDs  | 2 Piece(s) |

### Environmental data

|                                    |             |
|------------------------------------|-------------|
| Ambient temperature, storage       | 0 ... 40 °C |
| Relative humidity (non-condensing) | 90 %        |

### Certifications

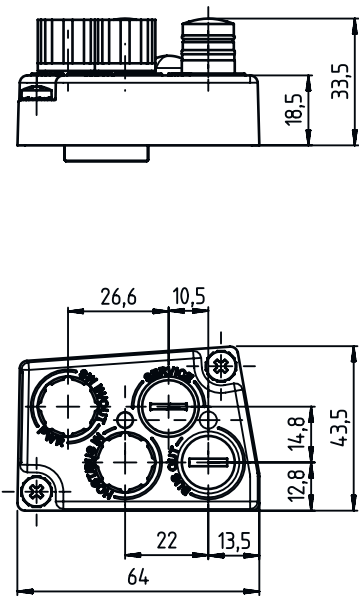
|                                                                 |                                                                                                                                                                         |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection                                            | IP 65, Only for screwed M12 plugs or screwed cable glands and mounted caps. Minimum tightening torque of the housing connecting screw of the connection hood is 1.4 Nm! |
| Protection class                                                | III                                                                                                                                                                     |
| Test procedure for EMC in accordance with standard              | EN 61000-6-2<br>EN 61000-6-4                                                                                                                                            |
| Test procedure for shock in accordance with standard            | IEC 60068-2-27, test Ea                                                                                                                                                 |
| Test procedure for continuous shock in accordance with standard | IEC 60068-2-27, test Ea                                                                                                                                                 |
| Test procedure for vibration in accordance with standard        | IEC 60068-2-6, test Fc                                                                                                                                                  |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 84733080 |
| ECLASS 5.1.4          | 27280190 |
| ECLASS 8.0            | 27280190 |
| ECLASS 9.0            | 27279090 |
| ECLASS 10.0           | 27280192 |
| ECLASS 11.0           | 27280191 |
| ECLASS 12.0           | 27280191 |
| ECLASS 13.0           | 27280191 |
| ECLASS 14.0           | 27280191 |
| ECLASS 15.0           | 27280191 |
| ETIM 5.0              | EC002498 |
| ETIM 6.0              | EC003015 |
| ETIM 7.0              | EC003015 |
| ETIM 8.0              | EC003015 |
| ETIM 9.0              | EC003015 |
| ETIM 10.0             | EC003015 |

Dimensioned drawings

All dimensions in millimeters



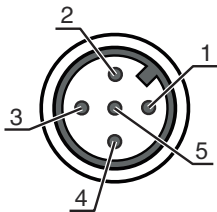
Electrical connection

Connection 1

|                    |                   |
|--------------------|-------------------|
| Function           | PWR / SW IN / OUT |
| Type of connection | Connector         |
| Thread size        | M12               |
| Type               | Male              |
| Material           | Metal             |
| No. of pins        | 5 -pin            |
| Encoding           | A-coded           |

Pin Pin assignment

|   |        |
|---|--------|
| 1 | VIN    |
| 2 | SWIO 1 |
| 3 | GNDIN  |
| 4 | SWIO 2 |
| 5 | FE     |



Connection 2

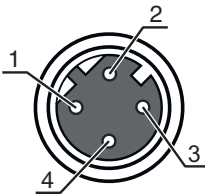
|                    |                |
|--------------------|----------------|
| Type of connection | USB            |
| Connector type     | USB 2.0 Mini-B |

Connection 3

|                    |               |
|--------------------|---------------|
| Function           | HOST / BUS IN |
| Type of connection | Connector     |
| Thread size        | M12           |
| Type               | Female        |
| Material           | Metal         |
| No. of pins        | 4 -pin        |
| Encoding           | D-coded       |

Electrical connection

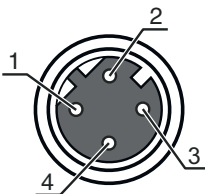
| Pin | Pin assignment |
|-----|----------------|
| 1   | TD+            |
| 2   | RD+            |
| 3   | TD-            |
| 4   | RD-            |



Connection 4

|                    |           |
|--------------------|-----------|
| Function           | BUS OUT   |
| Type of connection | Connector |
| Thread size        | M12       |
| Type               | Female    |
| Material           | Metal     |
| No. of pins        | 4 -pin    |
| Encoding           | D-coded   |

| Pin | Pin assignment |
|-----|----------------|
| 1   | TD+            |
| 2   | RD+            |
| 3   | TD-            |
| 4   | RD-            |



Operation and display

| LED | Display                 | Meaning                  |
|-----|-------------------------|--------------------------|
| 1   | Green, continuous light | Ethernet                 |
|     | Yellow, flashing        | Data transmission active |
| 2   | Green, continuous light | Ethernet                 |
|     | Yellow, flashing        | Data transmission active |