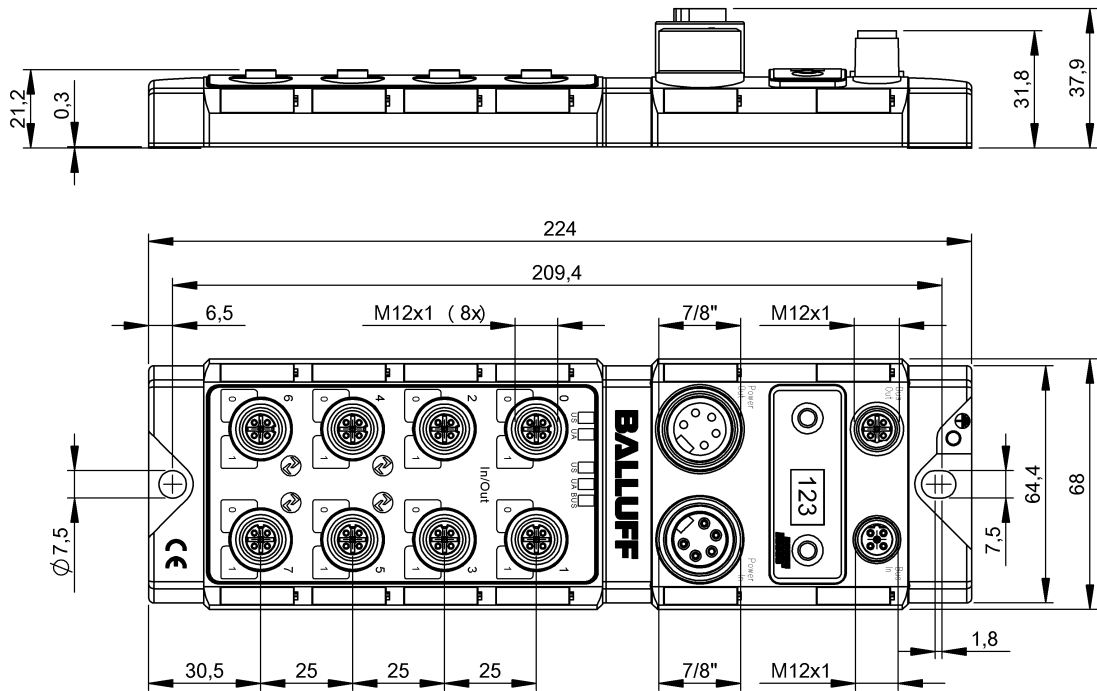




Display/Operation

|                               |            |
|-------------------------------|------------|
| Actuator supply UA, indicator | Green LED  |
| Sensor supply US indicator    | Green LED  |
| Switching function display    | LED yellow |

Electrical connection

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Connection (COM 1)              | Bus in: M12x1-Male, 5-pin, B-coded    |
| Connection (COM 2)              | Bus out: M12x1-Female, 5-pin, B-coded |
| Connection (supply voltage IN)  | 7/8"-Male, 5-pin                      |
| Connection (supply voltage OUT) | 7/8"-Female, 5-pin                    |
| Connection ports                | 8x M12x1-Female, 5-pin, A-coded       |
| Contact, surface protection     | nickel plated 2 µm/gold plated 0.4 µm |

Electrical data

|                               |                 |
|-------------------------------|-----------------|
| Address range                 | 0 - 126         |
| Configurable inputs/outputs   | yes             |
| Current sum UA, actuator      | 9.0 A           |
| Current sum US, sensor        | 9.0 A           |
| Operating voltage Ub          | 18...30.2 VDC   |
| Output current max.           | 2 A             |
| Rated operating voltage Ue DC | 24 V            |
| Transfer rate                 | 9.6...12 Mbit/s |

Environmental conditions

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Ambient temperature     | -5...70 °C                                                                    |
| EN 60068-2-6, Vibration | 5...61 Hz, constant amplitude 1 mm<br>61...500 Hz, constant acceleration 15 g |
| IP rating               | IP67 when threaded in                                                         |
| Storage temperature     | -25...70 °C                                                                   |

Functional safety

|              |      |
|--------------|------|
| MTTF (40 °C) | 34 a |
|--------------|------|

## General data

|                            |                     |
|----------------------------|---------------------|
| <b>Approval/Conformity</b> | CE                  |
|                            | CSA                 |
|                            | WEEE                |
| <b>Scope of delivery</b>   | Part label (20x)    |
|                            | Port cover M12 (4x) |
|                            | Grounding strap     |
|                            | Lock washer         |
|                            | Short guide         |
| <b>Style</b>               | M4x6 screw          |
|                            | Two-row             |

## Material

|                           |                   |
|---------------------------|-------------------|
| <b>Gasket, material</b>   | FKM 75            |
| <b>Housing material</b>   | Zinc, Die casting |
| <b>Housing shield</b>     | yes               |
| <b>Surface protection</b> | Cu 15 µm          |
|                           | Ni 15 µm          |

## Mechanical data

|                              |                    |
|------------------------------|--------------------|
| <b>Dimension</b>             | 68 x 37.9 x 224 mm |
| <b>Mounting</b>              | 2-hole screw mount |
| <b>Mounting ground strap</b> | M4                 |

## Output/Interface

|                             |                      |
|-----------------------------|----------------------|
| <b>Auxiliary interfaces</b> | 4x IO-Link           |
| <b>Digital inputs</b>       | 16x PNP, Type 2      |
| <b>Digital outputs</b>      | 16x PNP              |
| <b>IO-Link version</b>      | 1.1                  |
| <b>Interface</b>            | Profibus DP EN 50170 |
| <b>Port-class</b>           | Type A               |

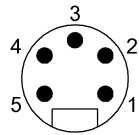
## Remarks

See short guide

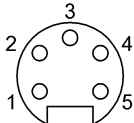
For further information about the MTTF and B10d see MTTF / B10d certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

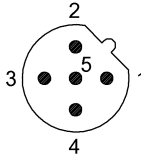
**Connector Drawings**



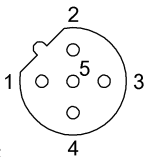
Power IN  
PIN 1: 0V  
PIN 2: 0V  
PIN 3: Function ground  
PIN 4: Sensor and bus supply.  
PIN 5: Actuator supply



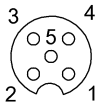
Power Out  
PIN 1: 0V  
PIN 2: 0V  
PIN 3: Function ground  
PIN 4: Sensor and bus supply.  
PIN 5: Actuator supply



PIN 1: Supply voltage +  
PIN 2: A-conductor  
PIN 3: DGND  
PIN 4: B-conductor  
PIN 5: Shield



PIN 1: Supply voltage +  
PIN 2: A-conductor  
PIN 3: DGND  
PIN 4: B-conductor  
PIN 5: Shield



I/O ports  
PIN 1: +24V, 0.2A  
PIN 2: In-/output/Diagnostics  
PIN 3: 0V  
PIN 4: In-/Output  
PIN 5: Function ground



IO-Link  
PIN 1: +24V  
PIN 2: In-/output/Diagnostics  
PIN 3: 0V  
PIN 4: IO-Link/In-/output  
PIN 5: n.c.