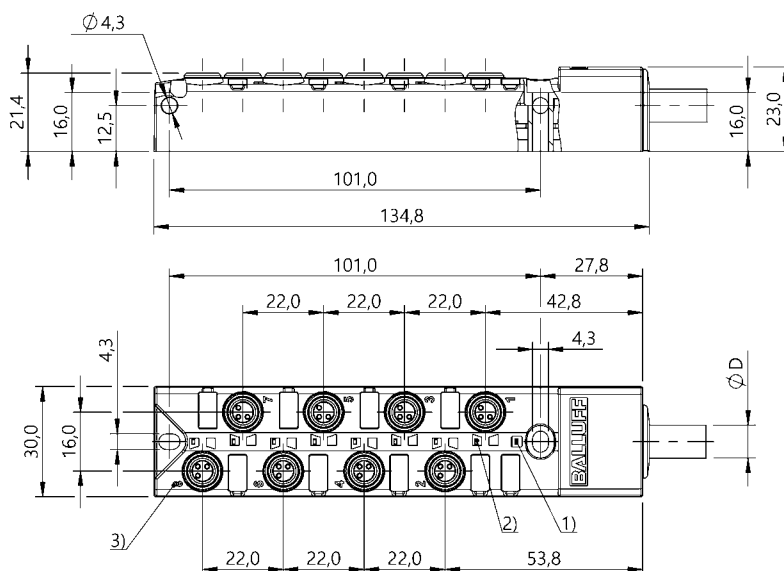




1) Power green, 2) LED yellow for Signal 1 (NO), 3) Slot numbering



## Basic features

|                     |                                     |
|---------------------|-------------------------------------|
| Approval/Conformity | CE<br>UKCA<br>cULus<br>WEEE         |
| Scope of delivery   | Part labels (11x)<br>Cover cap (5x) |

## Display/Operation

|                            |                 |
|----------------------------|-----------------|
| Power indicator            | Green LED       |
| Switching function display | Yellow LED (8x) |

## Electrical connection

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Bending radius min., fixed cable    | 7.5 x D                                     |
| Bending radius min., flexible cable | 15 x D                                      |
| Cable                               | PUR black, 5 m, drag chain compatible       |
| Cable diameter D                    | 6.80 mm ±0.2 mm                             |
| Cable, bending cycles min.          | 2 mil.                                      |
| Conductor cross-section             | 0.34 mm <sup>2</sup> + 0.75 mm <sup>2</sup> |
| Connection slots                    | 8x M8x1-Female, 3-pin                       |
| Number of conductors                | 10                                          |

## Electrical data

|                               |             |
|-------------------------------|-------------|
| Isolation resistance          | ≥ 10 GOhm   |
| Operating voltage Ub          | 10...30 VDC |
| Output current max.           | 3 A         |
| Rated operating voltage Ue DC | 24 V        |
| Total current max.            | 8 A         |

## Environmental conditions

|                                     |                        |
|-------------------------------------|------------------------|
| Cable temperature, fixed routing    | -40...80 °C            |
| Cable temperature, flexible routing | -20...80 °C            |
| IP rating                           | IP67, when threaded in |

## Material

|                          |                              |
|--------------------------|------------------------------|
| Cable jacket, material   | PUR                          |
| Housing material         | PBT, GF                      |
| Material contact carrier | PBT                          |
| Material contacts        | Bronze (CuSn6), nickel layer |

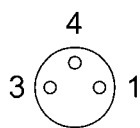
## Mechanical data

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Acceleration max., drag chain           | 10 m/s <sup>2</sup>            |
| Cable jacket, color                     | black                          |
| Cable length L                          | 5.00 m                         |
| Cable properties                        | drag chain compatible          |
| Casting                                 | yes                            |
| Dimension                               | 135 x 30 x 23 mm               |
| Horizontal travel permitted, drag chain | 10 m at 10 m/s <sup>2</sup>    |
| Mounting part                           | M4 (2x)                        |
| Tightening torque                       | 1.2 Nm ±0.2 (M4)               |
| Tightening torque pigtail               | 0.4 Nm + 0.1 Nm (M8 connector) |
| Traverse speed max., drag chain         | 3 m/s                          |

## Remarks

Cable construction acc. to UL-AWM Style 20549/10493  
 Flame resistance per IEC 60332-1-2  
 Flame resistance per UL 758/1581 FT2  
 Oil resistant per DIN EN 60811-404 (VDE 0473-811-404)  
 Enclosure rating per IEC 60529, only in screwed state with the associated mating piece.

## Connector Drawings



I/O ports

PIN 1: +24V

PIN 3: 0V

PIN 4: Normally open

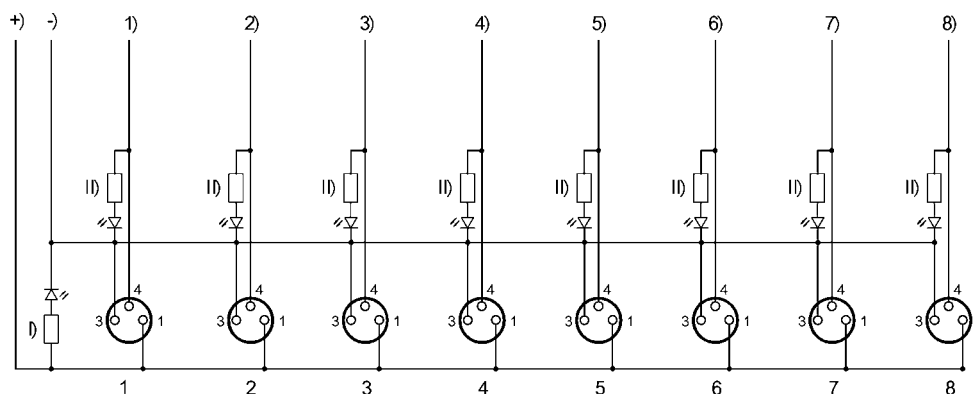
Junction blocks

BPI 8M303P-5K-B0-KPXA0-050

Order Code: BPI00CM

**BALLUFF**

## Wiring Diagrams

-) blue 0.75 mm<sup>2</sup>+) brown 0.75 mm<sup>2</sup>

1) white

2) green

3) yellow

4) gray

5) pink

6) red

7) black

8) violet

I) LED green

II) LED yellow