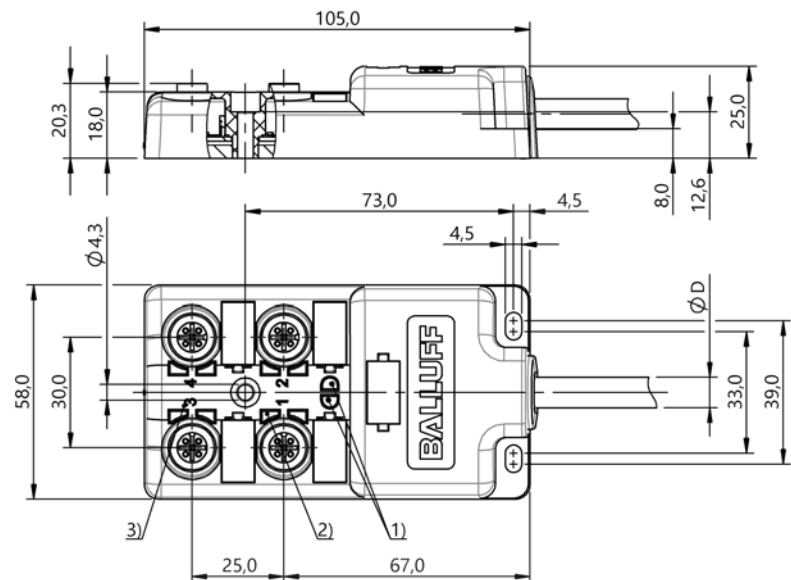




1) Power green, 2) LED yellow for Signal 1 (NO), 3) Slot numbering



#### Basic features

|                     |                                     |
|---------------------|-------------------------------------|
| Approval/Conformity | CE<br>UKCA<br>cULus<br>WEEE         |
| Scope of delivery   | Part labels (24x)<br>Cover cap (2x) |

#### Display/Operation

|                            |                 |
|----------------------------|-----------------|
| Power indicator            | Green LED       |
| Switching function display | Yellow LED (4x) |

#### Electrical connection

|                                     |                                            |
|-------------------------------------|--------------------------------------------|
| Bending radius min., fixed cable    | 7.5 x D                                    |
| Bending radius min., flexible cable | 15 x D                                     |
| Cable                               | PUR black, 15 m, drag chain compatible     |
| Cable diameter D                    | 7.45 mm ±0.2 mm                            |
| Cable, bending cycles min.          | 2 mil.                                     |
| Conductor cross-section             | 0.34 mm <sup>2</sup> + 1.0 mm <sup>2</sup> |
| Connection slots                    | 4x M12x1-Female, 4-pin                     |
| Number of conductors                | 7                                          |

#### Electrical data

|                                           |             |
|-------------------------------------------|-------------|
| Isolation resistance                      | ≥ 10 GOhm   |
| Operating voltage U <sub>b</sub>          | 10...30 VDC |
| Output current max.                       | 4 A         |
| Rated operating voltage U <sub>e</sub> 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 |

#### Interface

|                  |                        |
|------------------|------------------------|
| Switching output | PNP normally open (NO) |
|------------------|------------------------|

#### 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                          | 15.00 m                         |
| Cable properties                        | drag chain compatible           |
| Casting                                 | yes                             |
| Dimension                               | 105 x 58 x 25 mm                |
| Horizontal travel permitted, drag chain | 10 m at 10 m/s <sup>2</sup>     |
| Mounting part                           | M4 (3x)                         |
| Tightening torque                       | 1.2 Nm ±0.2 (M4)                |
| Tightening torque pigtail               | 0.6 Nm + 0.1 Nm (M12 connector) |
| Traverse speed max., drag chain         | 3 m/s                           |

Junction blocks

**BPI 4M4A4P-2K-B0-KPX70-150**

**Order Code: BPI009U**

**BALLUFF**

#### Remarks

Cable construction acc. to UL-AWM Style 20549/10493

Flame resistance per IEC 60332-1-2

Flame resistance per UL 758/1581 FT2

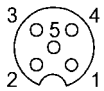
Halogen-free per DIN VDE 0472 Part 815

Halogen-free acc. to IEC 60754-1

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

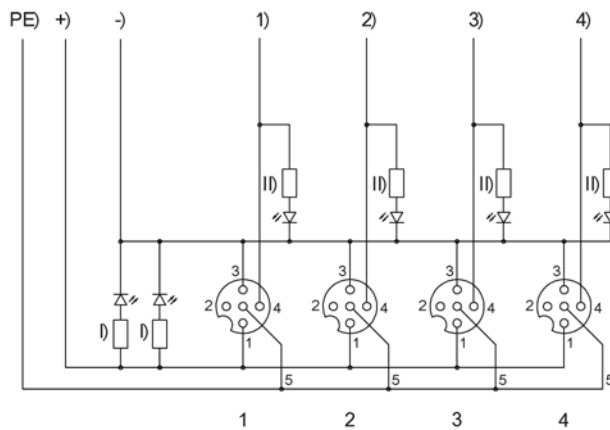
PIN 1: +24V

PIN 3: 0V

PIN 4: Normally open

PIN 5: PE

## Wiring Diagrams



-) blue 1.00 mm<sup>2</sup>

+) brown 1.00 mm<sup>2</sup>

1) white

2) green

3) yellow

4) gray

I) LED green

II) LED yellow

PE) green/yellow 1.00 mm<sup>2</sup>