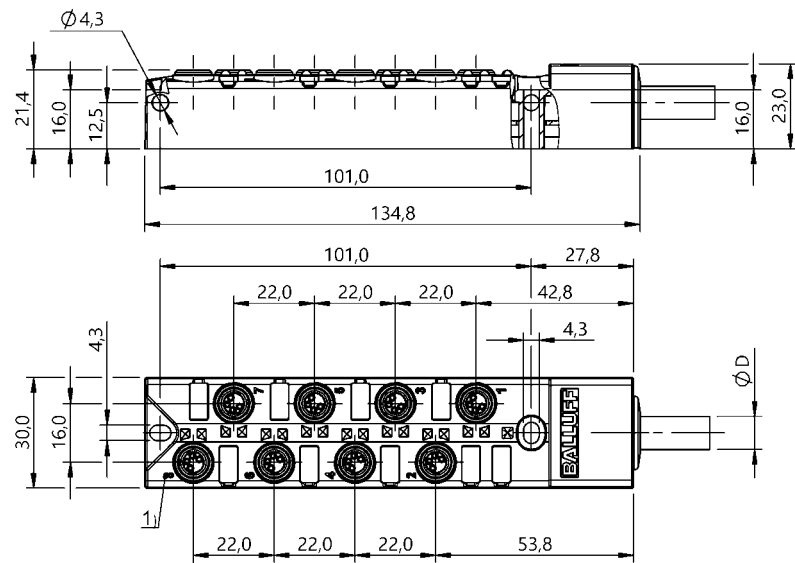


Junction blocks

BPI 8M3040-5K-B0-KP XK0-030

Order Code: BPI00FY

**BALLUFF**



1) Slot numbering



Basic features

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

Electrical connection

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Bending radius min., fixed cable    | 7.5 x D                               |
| Bending radius min., flexible cable | 15 x D                                |
| Cable                               | PUR black, 3 m, drag chain compatible |
| Cable diameter D                    | 8.80 mm ±0.25 mm                      |
| Cable, bending cycles min.          | 2 mil.                                |
| Conductor cross-section             | 0.34 mm² + 0.75 mm²                   |
| Connection slots                    | 8x M8x1-Female, 4-pin                 |
| Number of conductors                | 18                                    |

Electrical data

|                               |                         |
|-------------------------------|-------------------------|
| Isolation resistance          | ≥ 10 GOhm               |
| Operating voltage Ub          | 10...30 VDC/10...30 VAC |
| 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/s²                        |
| Cable jacket, color                     | black                          |
| Cable length L                          | 3.00 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/s²                |
| 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                          |

Junction blocks

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**BALLUFF**

#### Remarks

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

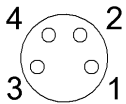
Flame resistance per IEC 60332-1-2

Flame resistance per UL 758/1581 FT2

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 2: Signal 2

PIN 3: 0V

PIN 4: Signal 1

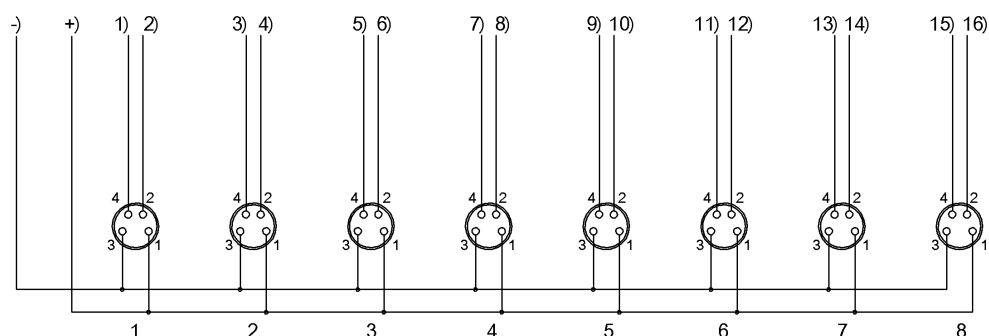
Junction blocks

BPI 8M3040-5K-B0-KP XK0-030

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**BALLUFF**

## Wiring Diagrams

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

1) white

2) gray/pink

3) green

4) red/blue

5) yellow

6) white/green

7) gray

8) brown/green

9) pink

10) white/yellow

11) red

12) yellow/brown

13) black

14) white/gray

15) violet

16) gray/brown