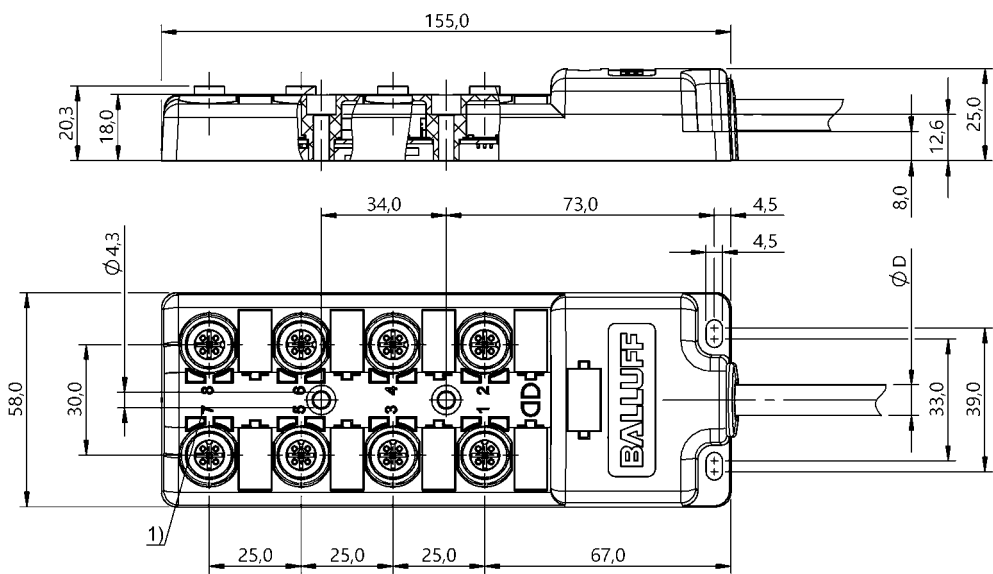


Junction blocks

BPI 8M4A50-2K-B0-KPXL0-100

Order Code: BPI00JU

BALLUFF



1) Slot numbering



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Scope of delivery	Part labels (24x) Cover cap (4x)

Electrical connection

Bending radius min., fixed cable	7.5 x D
Bending radius min., flexible cable	15 x D
Cable	PUR black, 10 m, drag chain compatible
Cable diameter D	9.70 mm ±0.3 mm
Cable, bending cycles min.	2 mil.
Conductor cross-section	0.34 mm² + 1.0 mm²
Connection slots	8x M12x1-Female, 5-pin
Number of conductors	19

Electrical data

Isolation resistance	≥ 10 GOhm
Operating voltage Ub	10...60 VDC/10...60 VAC
Output current max.	4 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	10.00 m
Cable properties	drag chain compatible
Casting	yes
Dimension	155 x 58 x 25 mm
Horizontal travel permitted, drag chain	10 m at 10 m/s²
Mounting part	M4 (4x)
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

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Remarks

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

Flame resistance per IEC 60332-1-2

Flame resistance per UL 758/1581 FT2

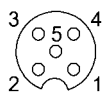
Halogen-free per DIN VDE 0472 Part 815

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



PIN 1: +24V

PIN 2: Signal 2

PIN 3: 0V

PIN 4: Signal 1

PIN 5: PE

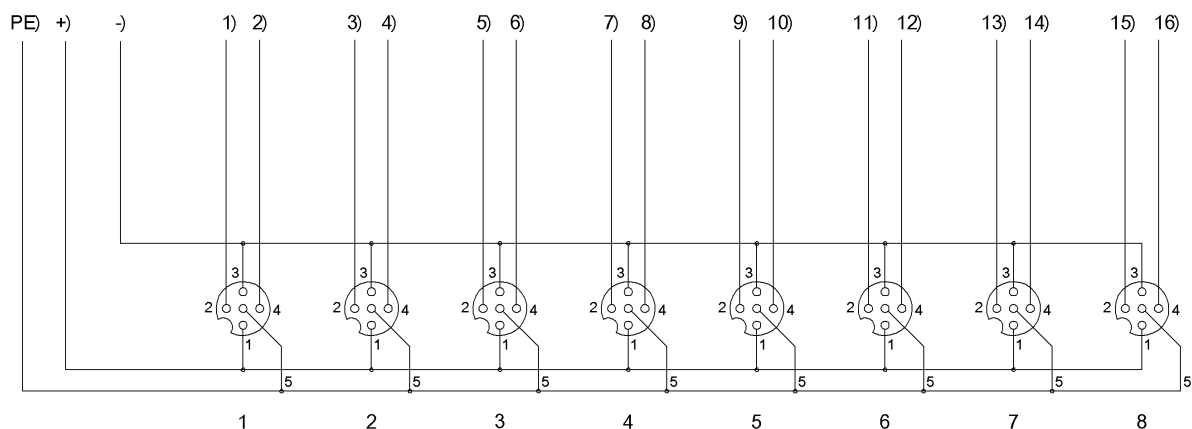
Junction blocks

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Order Code: BPI00JU

BALLUFF

Wiring Diagrams

-) blue 1.00 mm²+) brown 1.00 mm²

1) gray/pink

2) white

3) red/blue

4) green

5) white/green

6) yellow

7) brown/green

8) gray

9) white/yellow

10) pink

11) yellow/brown

12) red

13) white/gray

14) black

15) gray/brown

16) violet

PE) green/yellow 1.00 mm²