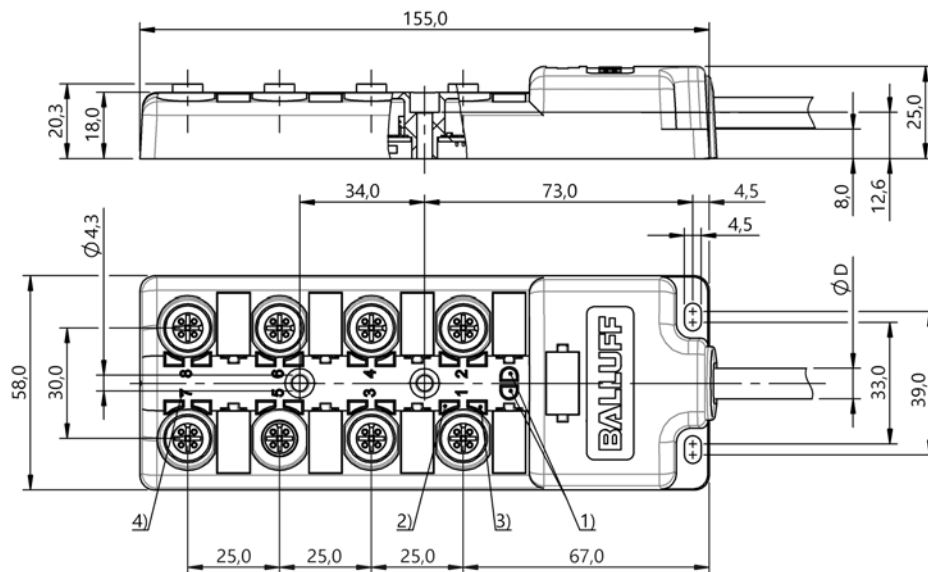


Junction blocks

BPI 8M4A5P-2K-B0-KPXL0-050

Order Code: BPI0099

BALLUFF



1) Power green, 2) LED yellow for Signal 1 (NO), 3) LED yellow for Signal 2 (NC), 4) Slot numbering



Basic features

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

Display/Operation

Power indicator	Green LED
Switching function display	Yellow LED (16x)

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	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 U_b	10...30 VDC
Output current max.	4 A
Rated operating voltage U_e 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/normally closed (NO/NC)
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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	5.00 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

Remarks

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

Flame resistance per IEC 60332-1-2

Flame resistance per UL 758/1581 FT2

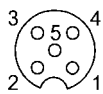
Halogen-free per DIN VDE 0472 Part 815

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 2: Normally closed

PIN 3: 0V

PIN 4: Normally open

PIN 5: PE

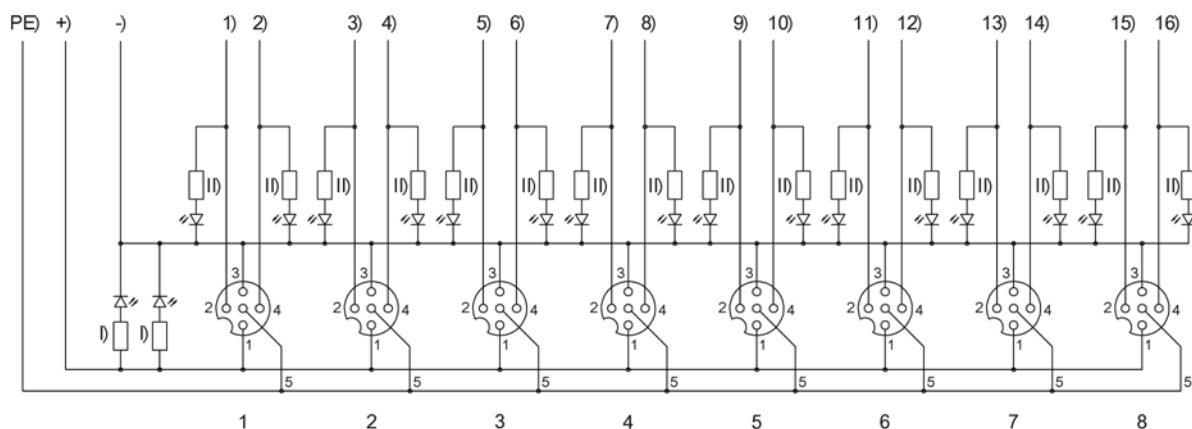
Junction blocks

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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

I) LED green

10) pink

11) yellow/brown

12) red

13) white/gray

14) black

15) gray/brown

16) violet

II) LED yellow

PE) green/yellow 1.00 mm²