Features

8-Port Junction Block with 16 Signals



- Capable of handling 16 individual PNP signals into a singular point of entry
- Supports 8A combined between all devices connected
- Pin 2 and Pin 4 on the M12 for each individual signal
- Home run cabling options include a flying lead exit in varying lengths or a short 0.3 m M23 male 19-pin quick-disconnect connector
- Fully overmolded with a rugged TPU body
- Immediate field feedback with LEDs for signal and power status
- Wiring diagram included on body for quick problem diagnosis

Models

LED Models

Model	Ports	Home Run Connector	Wiring
R95-8M125-C1-D24P	(8) Integral 5-pin M12 female quick-disconnect connectors	1 m (3.28 ft) black PVC cable with flying leads	See "Wiring" on page 2
R95-8M125-C2-D24P		2 m (6.56 ft) black PVC cable with flying leads	
R95-8M125-C5-D24P		5 m (16.40 ft) black PVC cable with flying leads	
R95-8M125-C10-D24P		10 m (32.80 ft) black PVC cable with flying leads	
R95-8M125-0.3M23-D24P		0.3 m (0.98 ft) black PVC cable with a 19-pin M23 male quick-disconnect connector	

Non-LED Models

Model	Ports	Home Run Connector	Wiring
R95-8M125-C1-D24	(8) Integral 5-pin M12 female quick-disconnect connectors	1 m (3.28 ft) black PVC cable with flying leads	See "Wiring" on page 2
R95-8M125-C2-D24		2 m (6.56 ft) black PVC cable with flying leads	
R95-8M125-C5-D24		5 m (16.40 ft) black PVC cable with flying leads	
R95-8M125-C10-D24		10 m (32.80 ft) black PVC cable with flying leads	
R95-8M125-0.3M23-D24		0.3 m (0.98 ft) black PVC cable with a 19-pin M23 male quick-disconnect connector	

Original Instructions
08-Jul-25

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242038
p/n: 242038 Rev. C

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

Product Overview

Banner’s Molded Junction Blocks are designed to help customers reduce wiring and to simplify connecting multiple products.

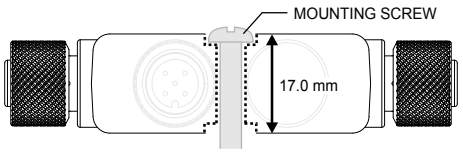
The 8-Port I/O Junction Block:

- Allows up to 16 individual PNP devices connected
- Provides 8A of power shared between all devices connected on the 18 Awg power conductors from a panel or control source
- Includes a singular connection back to the control device or panel to manage all of these devices on 22 awg wire
- Has non-LED options to allow for any signal type to be combined into the block

Mechanical Installation

Install the R95 IO Junction Block to allow access for functional checks, maintenance, and service or replacement.

All mounting hardware is supplied by the user. Fasteners must be of sufficient strength to guard against breakage. Use of permanent fasteners or locking hardware is recommended to prevent the loosening or displacement of the device. The mounting hole (4.5 mm) in the R95 IO Junction Block accepts M4 (#8) hardware. See the figure below to help in determining the minimum screw length.



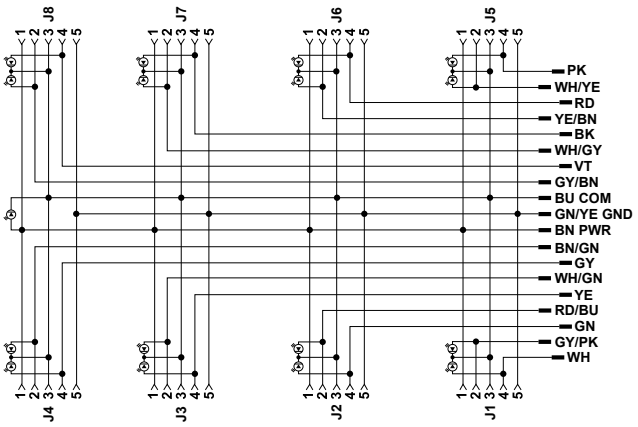
NOTE: The dotted line indicates the profile of the counterbore.

CAUTION: Do not overtighten the R95 IO Junction Block's mounting screw during installation. Overtightening can affect the performance of the R95 IO Junction Block.

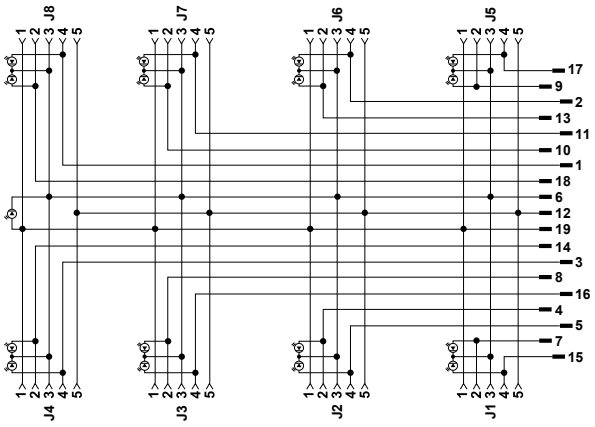
Wiring

LED Models

Flying Lead Model



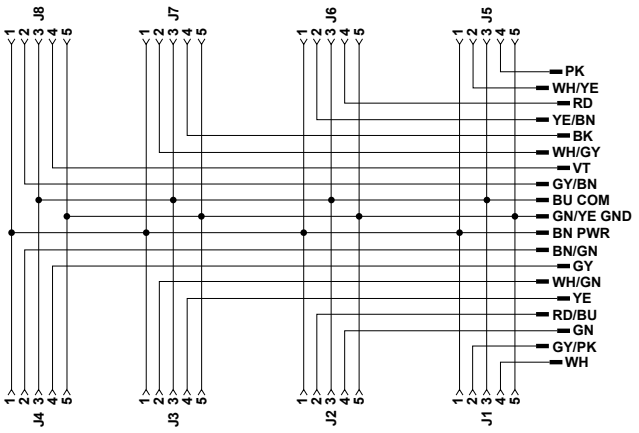
M23 Model



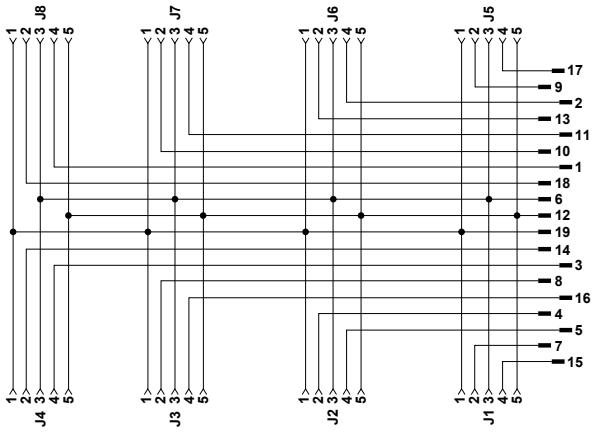
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Non-LED Models

Flying Lead Model



M23 Model



Specifications

Voltage Input Range
30 V DC

Maximum Current
8A total
2A max. per connector

Certifications

Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM

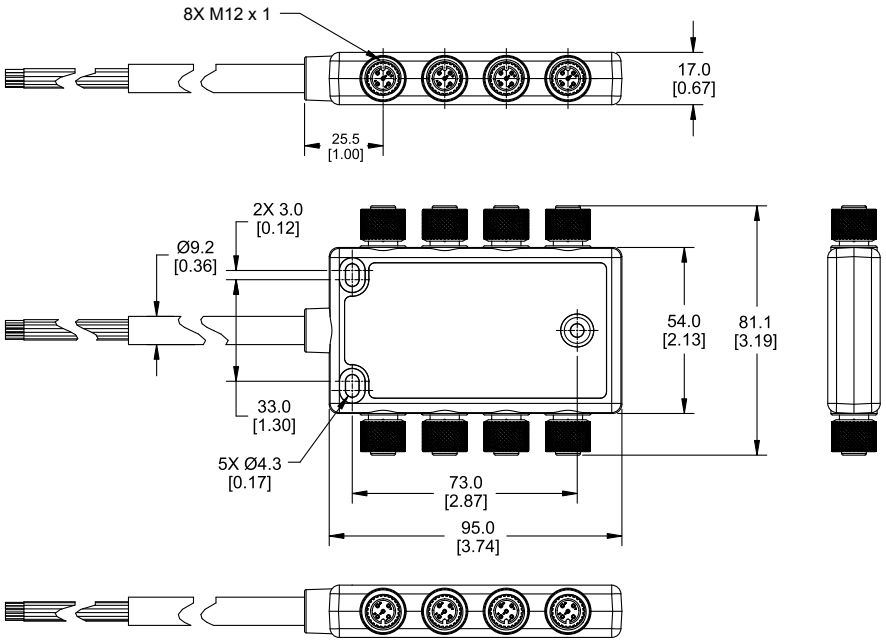
Construction
Coupling Material: Nickel-plated brass
Connector Body: TPU black

Operating Conditions
–40 °C to +70 °C (–40 °F to +158 °F)
90% at +70 °C maximum relative humidity (non-condensing)
Storage Temperature: –40 °C to +80 °C (–40 °F to +176 °F)

Dimensions

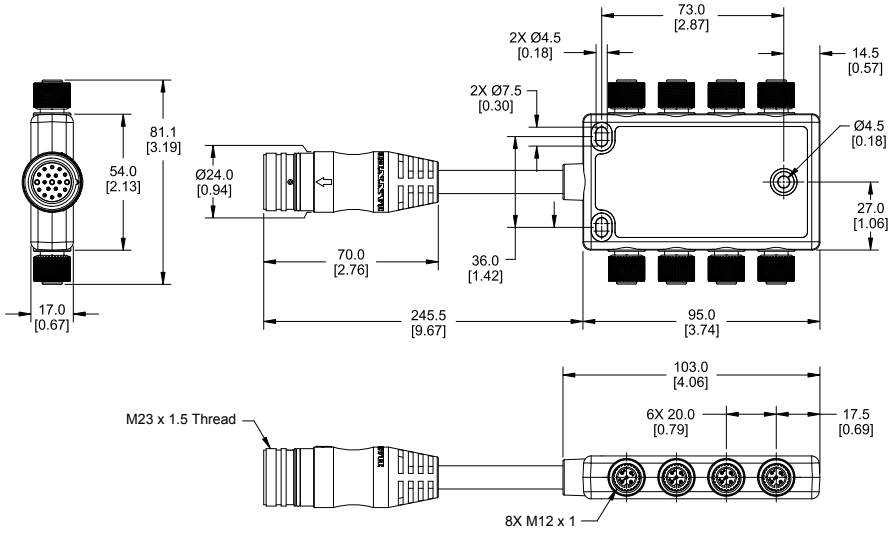
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.

Flying Lead Model



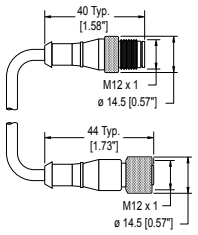
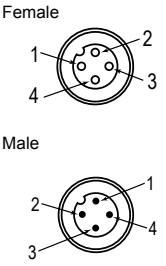
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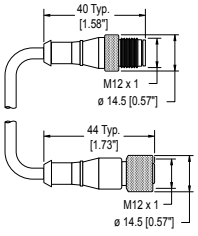
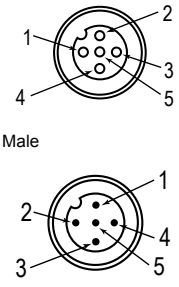
M23 Model



Accessories

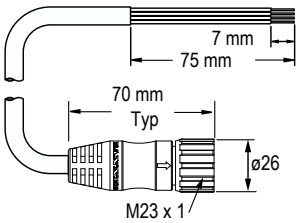
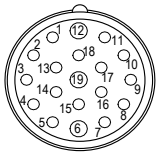
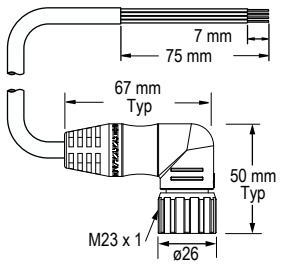
Cordsets

4-pin A-Code Double-Ended M12 Female to M12 Male Cordsets				
Model	**Length**	**Dimensions (mm)**	**Pinouts**	
BC-M12F4-M12M4-22-1	1 m (3.28 ft)			1 = Brown 2 = White 3 = Blue 4 = Black
BC-M12F4-M12M4-22-2	2 m (6.56 ft)			
BC-M12F4-M12M4-22-3	3 m (9.84 ft)			
BC-M12F4-M12M4-22-4	4 m (13.12 ft)			
BC-M12F4-M12M4-22-5	5 m (16.4 ft)			
BC-M12F4-M12M4-22-10	10 m (30.81 ft)			
BC-M12F4-M12M4-22-15	15 m (49.2 ft)			

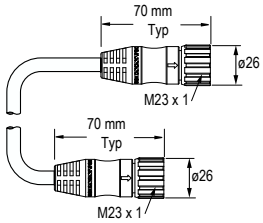
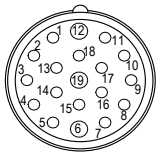
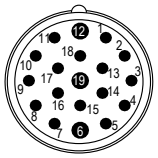
5-pin A-Code Double-Ended M12 Female to M12 Male Cordsets				
Model	**Length**	**Dimensions (mm)**	**Pinouts**	
BC-M12F5-M12M5-22-1	1 m (3.28 ft)			1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray
BC-M12F5-M12M5-22-2	2 m (6.56 ft)			
BC-M12F5-M12M5-22-5	5 m (16.4 ft)			
BC-M12F5-M12M5-22-8	8 m (26.25 ft)			
BC-M12F5-M12M5-22-10	10 m (30.81 ft)			
BC-M12F5-M12M5-22-15	15 m (49.2 ft)			

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19-pin Single-Ended M23 Female Cordsets

Model	Length	Dimensions (mm)	Pinout (Female)	
BC-M23F19-1822-1	1 m (3.28 ft)			1 = Purple 2 = Red 3 = Gray 4 = Red/Blue 5 = Green 6 = Blue (18 AWG) 7 = Gray/Pink 8 = White/Green 9 = White/Yellow 10 = White/Gray 11 = Black 12 = Green/Yellow (18 AWG) 13 = Yellow/Brown 14 = Brown/Green 15 = White 16 = Yellow 17 = Pink 18 = Gray/Brown 19 = Brown (18 AWG)
BC-M23F19-1822-2	2 m (6.56 ft)			
BC-M23F19-1822-5	5 m (16.4 ft)			
BC-M23F19-1822-10	10 m (32.8 ft)			
BC-M23F19-1822-15	15 m (49.2 ft)			
BC-M23F19-1822-20	20 m (65.6 ft)			
BC-M23F19A-1822-2	2 m (6.56 ft)			
BC-M23F19A-1822-5	5 m (16.4 ft)			
BC-M23F19A-1822-10	10 m (32.8 ft)			

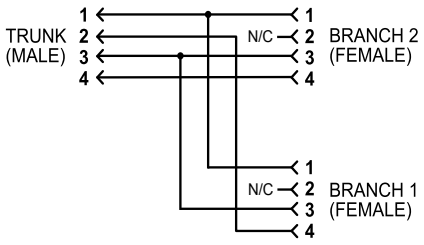
19-pin Double-Ended M23 Female to M23 Male Cordsets

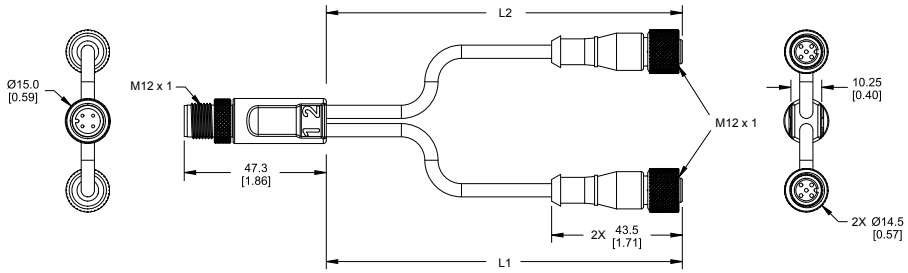
Model	Length	Dimensions (mm)	Pinout (Female)	Pinout (Male)
BC-M23F19-M23M19-1822-1	1 m (3.28 ft)			
BC-M23F19-M23M19-1822-2	2 m (6.56 ft)			
BC-M23F19-M23M19-1822-5	5 m (16.4 ft)			
BC-M23F19-M23M19-1822-10	10 m (32.8 ft)			
BC-M23F19-M23M19-1822-15	15 m (49.2 ft)			
BC-M23F19-M23M19-1822-20	20 m (65.6 ft)			

1 = Purple
2 = Red
3 = Gray
4 = Red/Blue
5 = Green
6 = Blue (18 AWG)
7 = Gray/Pink
8 = White/Green
9 = White/Yellow
10 = White/Gray

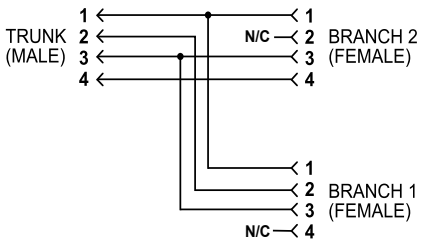
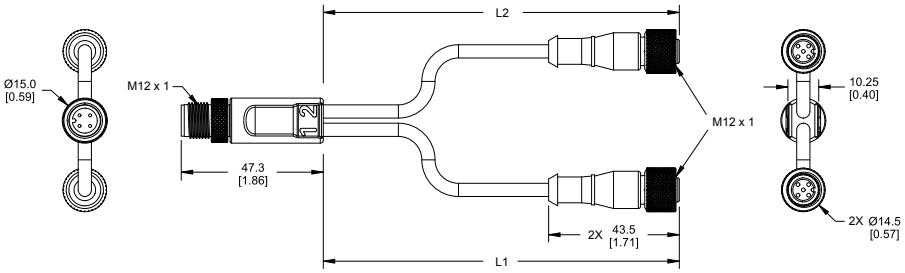
11 = Black
12 = Green/Yellow (18 AWG)
13 = Yellow/Brown
14 = Brown/Green
15 = White
16 = Yellow
17 = Pink
18 = Gray/Brown
19 = Brown (18 AWG)

4-Pin M12 Male to 5-Pin M12 Female Splitter Cordset

Model	Branches (Female)	Wiring
S15YA4-M124-M124-0.2M	**L1, L2** 2 × 0.2 m (7.9 in)	



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4-Pin M12 Male to 5-Pin M12 Female Splitter Cordset		
Model	**Branches (Female)**	**Wiring**
S15YA24-M124-M124-0.2M	**L1, L2** 2 × 0.2 m (7.9 in)	
		

Other Accessories

ACC-CAP M12-10 • 10 Caps • Seal and protect exposed, unterminated M12 quick-disconnect connectors	

Maintenance and Service

Do not use alcohol-based cleaning agents. The R95 IO Junction Block is maintenance-free.

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