

BANNER R95-8M125 Series I/O Junction Block Owner's **Manual**

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BANNER R95-8M125 Series I/O Junction Block



Specifications

• Voltage Input Range: 30 V DC

• Maximum Current: 8A total, 2A max. per connector

Product Overview

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

Mechanical Installation

Install the R95 I/O 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 I/O Junction Block accepts M4 (#8) hardware. See the figure below to help in determining the minimum screw length.

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

Product Usage Instructions

Wiring

LED Models:

Refer to the wiring diagram for LED models provided in the manual and ensure proper connection according to the color codes.

Flying Lead Model:

Follow the wiring instructions for the flying lead model as outlined in the manual. Connect the appropriate wires to their corresponding ports.

M23 Model:

For M23 models, refer to the wiring diagram provided in the manual and connect the wires accordingly based on the pin configuration.

Accessories

Cordsets are available for additional connectivity options. Refer to the accessories section of the manual for more information on compatible cordset models.

Q: Can I use this Junction Block with voltages other than 30 V DC?

A: No, the specified voltage input range for this product is 30 V DC. Using higher voltages may damage the device.

• Q: What is the maximum current rating per connector?

A: The maximum current per connector is 2A, with a total maximum current of 8A across all connectors.

R95 I/O Junction Block Product Manual

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 quickdisconnect 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 fe	1 m (3.28 ft) black PVC ca ble with flying leads		
R95-8M125-0.3M23-D24 P	male quick-disconnect co nnectors	0.3 m (0.98 ft) black PVC cable with a 19-pin M23 m ale quick- disconnect connector	See <u>"Wiring" on page 2</u>	

Non-LED Models

Model	Ports	Home Run Connector	Wiring
R95-8M125-C1-D24	(8) Integral 5-pin M12 fe male quick-disconnect co nnectors	1 m (3.28 ft) black PVC ca ble with flying leads	
R95-8M125-0.3M23-D24		0.3 m (0.98 ft) black PVC cable with a 19-pin M23 m ale quick- disconnect connector	See <u>"Wiring" on page 2</u>

Product Overview

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

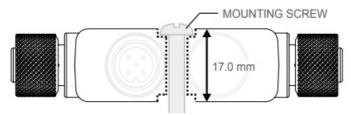
The 8-Port I/O Junction Block:

- · 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 I/O 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 I/O Junction Block accepts M4 (#8) hardware. See the figure below to help in determining the minimum screw length.

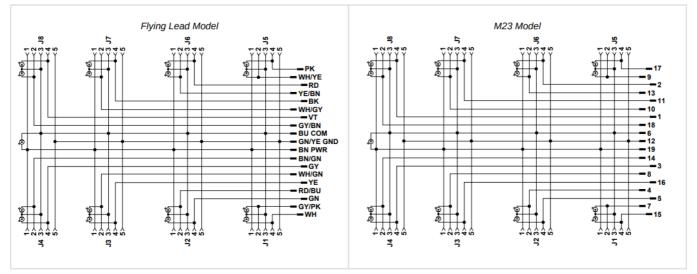


NOTE: The dotted line indicates the profile of the counterbore.

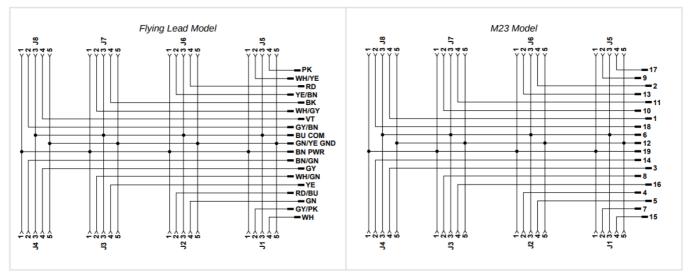
CAUTION: Do not overtighten the R95 I/O Junction Block's mounting screw during installation. Overtightening can affect the performance of the R95 I/O Junction Block.

Wiring

LED Models



Non-LED Models



Specifications

- Voltage Input Range
- 30 V DC
- Maximum Current
- 8A total
- 2A max. per connector

Construction

• Coupling Material: Nickel-plated brass

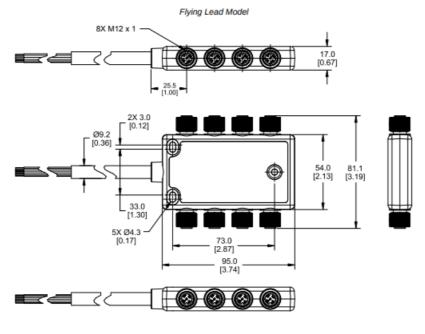
• Connector Body: TPU black

Operating Conditions

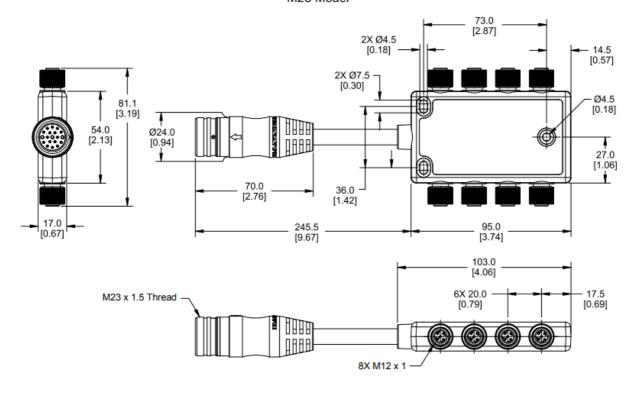
- 40 °C to +70 °C (-40 °F to +158 °F)
- 90% at +70 °C maximum relative humidity (non-condensing)
- Storage Temperature: -40 °C to +80 °C (-40 °F to +176 °F)

Dimensions

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



M23 Model



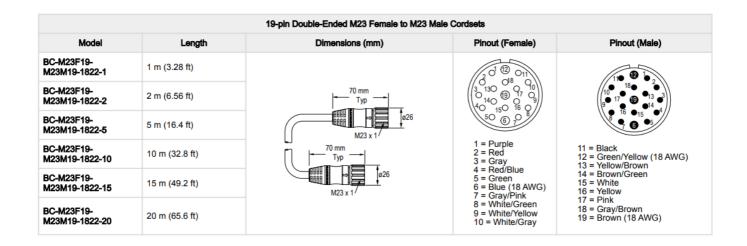
Accessories

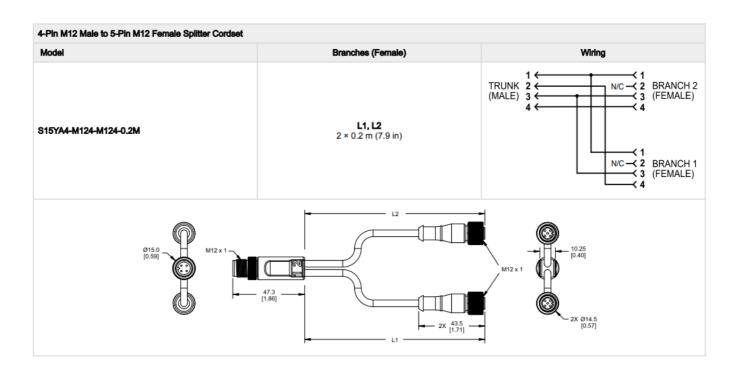
Cordsets

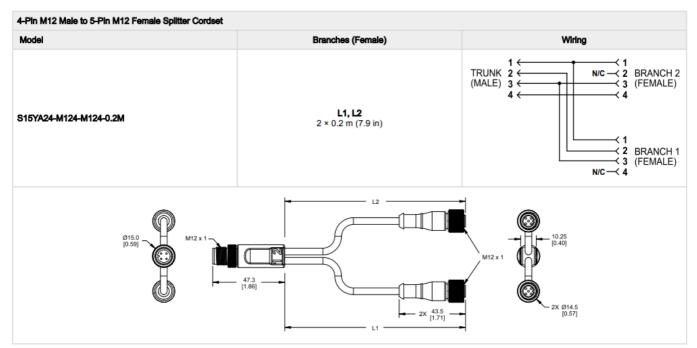
4-pin Double-Ended M12 Female to M12 Male Cordsets				
Model	Length	Dimensions (mm)	Pinouts	
BC-M12F4-M12M4-22-1	1 m (3.28 ft)	40 Typ4	Female	
BC-M12F4-M12M4-22-2	2 m (6.56 ft)	[1.56]	1 200 2	
BC-M12F4-M12M4-22-5	5 m (16.4 ft)	M12 x1	4 3	4 - Danier
BC-M12F4-M12M4-22-8	8 m (26.25 ft)	ø 14.5 [0.57"] J	Male	1 = Brown 2 = White 3 = Blue
BC-M12F4-M12M4-22-10	10 m (30.81 ft)	44 Typ	wate 1	4 = Black
BC-M12F4-M12M4-22-15	15 m (49.2 ft)	M12x1 - 0 14.5 [0.577] -	2 4	

5-pin Double-Ended M12 Female to M12 Male Cordsets				
Model	Length	Dimensions (mm)	Pinouts	
BC-M12F5-M12M5-22-0.16M	0.16 m (0.52 ft)		Female	
BC-M12F5-M12M5-22-1	1 m (3.28 ft)	40 Typ	1 200	
BC-M12F5-M12M5-22-2	2 m (6.56 ft)		3	
BC-M12F5-M12M5-22-5	5 m (16.4 ft)	M12×1 J ø 14.5 [0.57"] J	4-5	1 = Brown 2 = White
BC-M12F5-M12M5-22-8	8 m (26.25 ft)	44 Typ	Male	3 = Blue 4 = Black
BC-M12F5-M12M5-22-10	10 m (30.81 ft)	[1.73]	1	5 = Gray
BC-M12F5-M12M5-22-15	15 m (49.2 ft)	M12 x 1	3 4	

	19-pin Single-Ended M23 Fernale Cordsets				
Model	Length	Dimensions (mm)	Pinout (Female)		
BC-M23F19-1822-1	1 m (3.28 ft)				
BC-M23F19-1822-2	2 m (6.56 ft)	7 mm			
BC-M23F19-1822-5	5 m (16.4 ft)	70 mm Typ —	30 130 (9 01) 140 (9 07 08)	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	
BC-M23F19-1822-10	10 m (32.8 ft)				
BC-M23F19-1822-15	15 m (49.2 ft)	ø26			
BC-M23F19-1822-20	20 m (65.6 ft)	M23 x 1			
BC-M23F19A-1822-2	2 m (6.56 ft)				
BC-M23F19A-1822-5	5 m (16.4 ft)	7 mm	150 f6 0 50 6 0	12 = Green/Yellow (18 AWG) 13 = Yellow/Brown	
BC-M23F19A-1822-10	10 m (32.8 ft)	67 mm Typ 50 mm Typ		14 = Brown/Green 15 = White 16 = Yellow 17 = Pink 18 = Gray/Brown 19 = Brown (18 AWG)	







Other Accessories

ACC-CAP M12-10

- 10 Caps
- Seal and protect exposed, unterminated cascade quick-disconnect connectors



Maintenance and Service

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

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Documents / Resources



BANNER R95-8M125 Series I/O Junction Block [pdf] Owner's Manual R95-8M125-C1-D24P, R95-8M125-0.3M23-D24P, R95-8M125-C1-D24, R95-8M125-0.3M23-D 24, R95-8M125 Series I O Junction Block, R95-8M125 Series, I O Junction Block, Junction Block, Block

References

- Patents
- User Manual

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