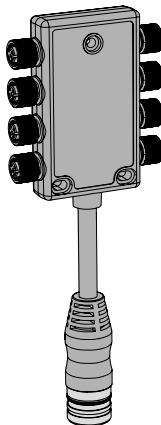


## Features

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	

## Product Overview

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

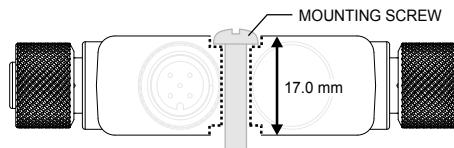
The 8-Port I/O Junction Block:

- 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.



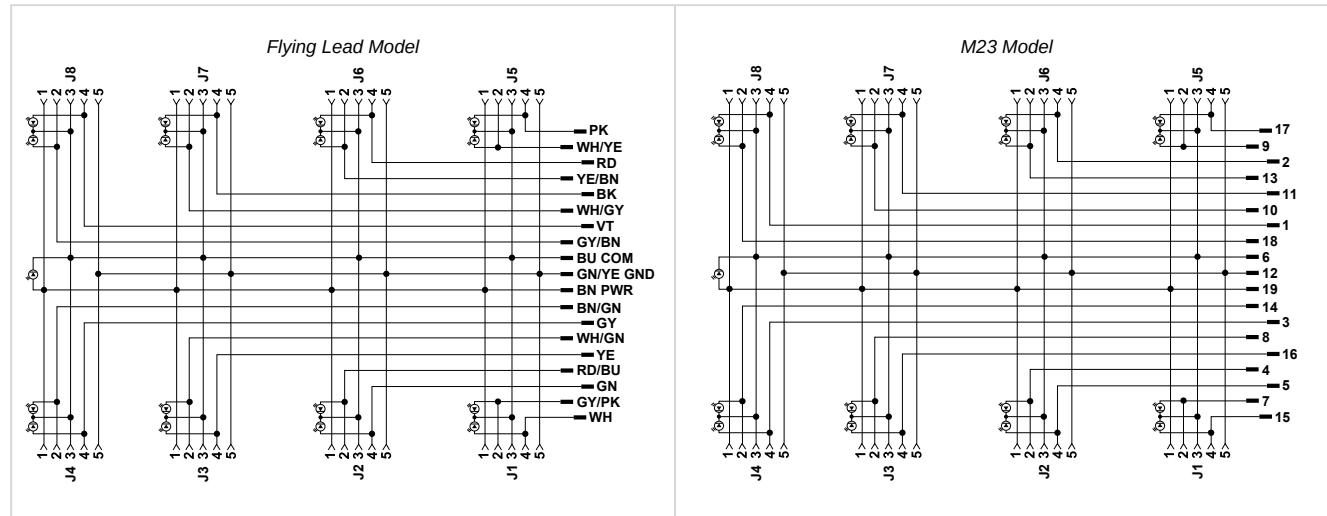
**NOTE:** The dotted line indicates the profile of the counterbore.



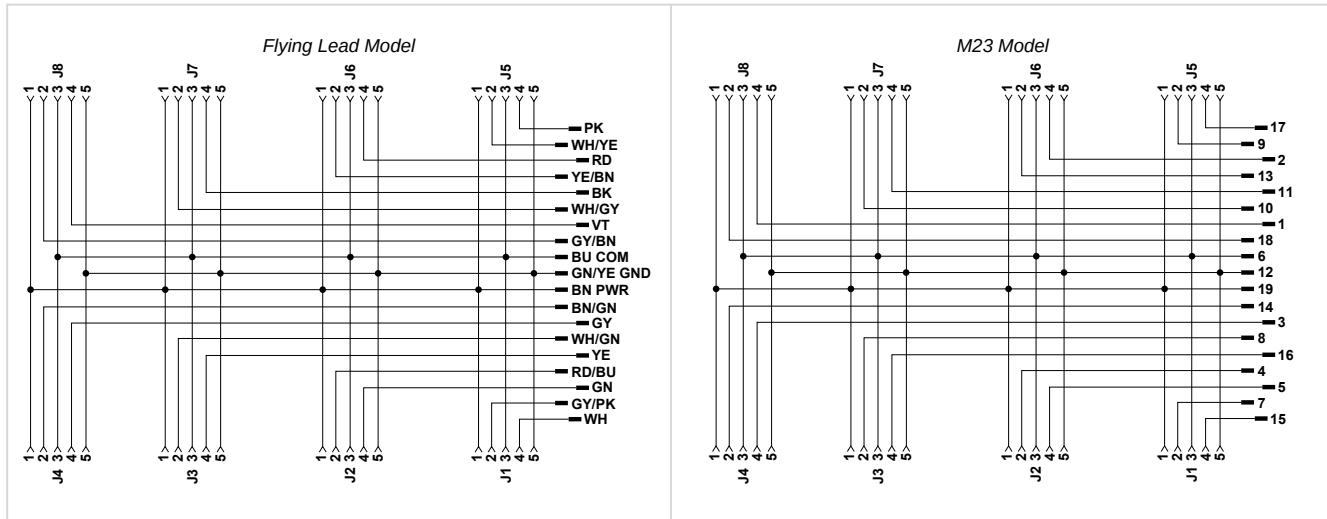
**CAUTION:** Do not overtighten the R95 IO Junction Block's mounting screw during installation. Overtightening can affect the performance of the R95 IO Junction Block.

## Wiring

*LED Models*



## 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

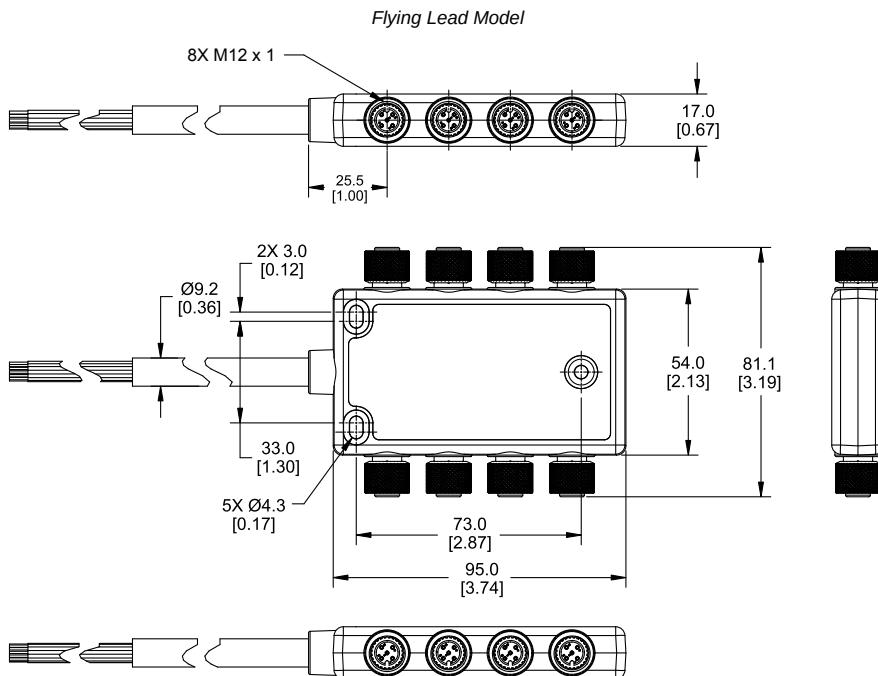
-40 °C to +70 °C (-40 °F to +158 °F)

90% at +70 °C maximum relative humidity (non-condensing)

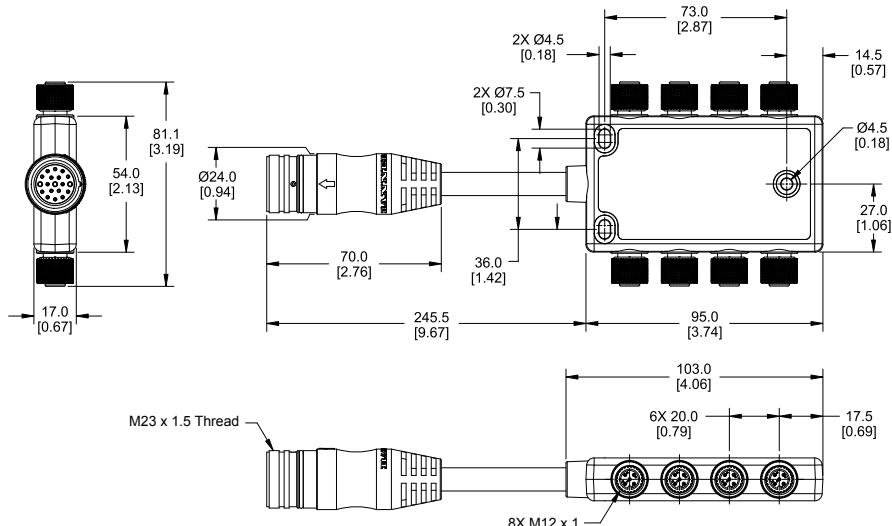
Storage Temperature: -40 °C to +80 °C (-40 °F to +176 °F)

## Dimensions

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



M23 Model

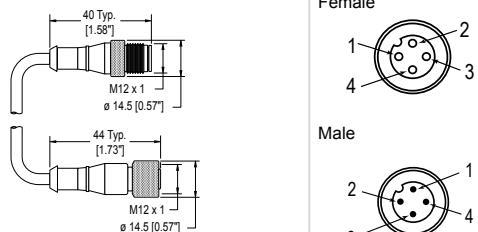


## Accessories

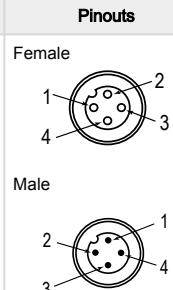
### Cordsets

4-pin 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)		
BC-M12F4-M12M4-22-2	2 m (6.56 ft)		
BC-M12F4-M12M4-22-5	5 m (16.4 ft)		
BC-M12F4-M12M4-22-8	8 m (26.25 ft)		
BC-M12F4-M12M4-22-10	10 m (30.81 ft)		
BC-M12F4-M12M4-22-15	15 m (49.2 ft)		



1 = Brown  
2 = White  
3 = Blue  
4 = Black

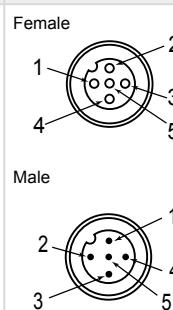


5-pin Double-Ended M12 Female to M12 Male Cordsets

Model	Length	Dimensions (mm)	Pinouts
BC-M12F5-M12M5-22-0.16M	0.16 m (0.52 ft)		
BC-M12F5-M12M5-22-1	1 m (3.28 ft)		
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)		



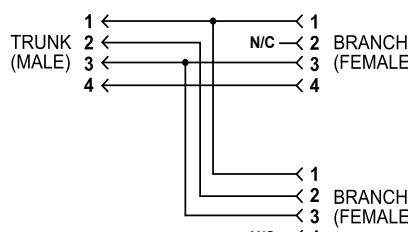
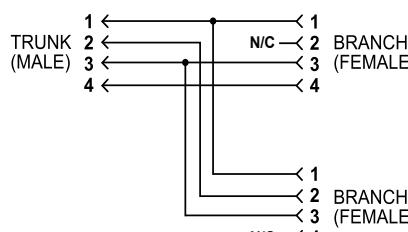
1 = Brown  
2 = White  
3 = Blue  
4 = Black  
5 = Gray



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)			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-M23F19-1822-5	5 m (16.4 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-M23F19-1822-10	10 m (32.8 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-M23F19-1822-20	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)

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)			

4-Pin M12 Male to 5-Pin M12 Female Splitter Cordset				
Model		Branches (Female)	Wiring	
S15YA4-M124-M124-0.2M				

4-Pin M12 Male to 5-Pin M12 Female Splitter Cordset		
Model	Branches (Female)	Wiring
S15YA24-M124-M124-0.2M	<p style="text-align: center;"><b>L1, L2</b> 2 x 0.2 m (7.9 in)</p> 	

## 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 IO Junction Block is maintenance-free.

## Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

**THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.**

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