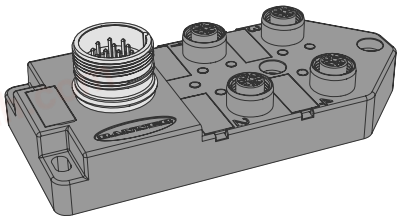
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JB-4M12-M23-24 M12 to M23 Junction Blocks

Features

4-port junction block

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



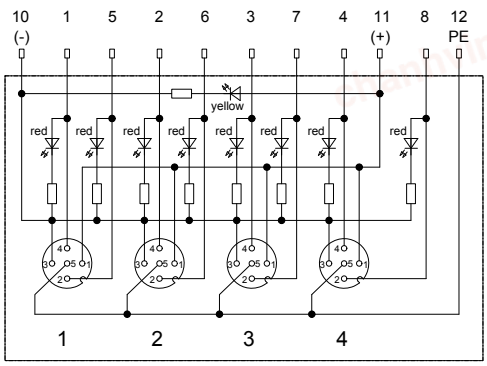
- M12 5-pin female termination with M23 12-pin male connector
- 4 ports
- NPN, PNP, and discrete models available
- 8 signals, 2 channels per port

Models

Model	Output	Indication
JB-4M12-M23-P24	PNP	LED
JB-4M12-M23-N24	NPN	
JB-4M12-M23-24	Discrete	Non-LED

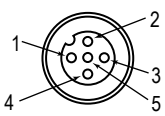
Wiring

Wiring Diagram



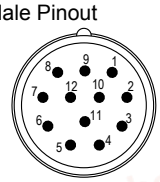
LED Indicating PNP
Other circuit diagram (NPN) can be customized

M12 5-pin Female Pinout



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

M23 12-pin Male Pinout



1 = White
2 = Brown
3 = Green
4 = Yellow
5 = Gray
6 = Pink
7 = Blue
8 = Red
9 = Orange
10 = Tyrian Purple
11 = Black
12 = Violet

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242042
p/n: 242042 Rev. B

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Specifications

Voltage
LED models: 30 V DC
Non-LED models: 60 V DC

Current
2 A per port / 6 A total

Indicators (LED models only)
Power LED: Red (0, 4 or 8, depending on model)
Signal LED: Amber (0 or 1, depending on model)

Construction
Body: PBT
Coupling nut: Nickel-plated brass

Vibration
Method: EN 60068-2-6:2008
Frequency Range: 10-55 Hz (Sine)
Amplitude: 0.5 mm
Sweep Cycle Duration: 5 minutes (2.5 min per sweep)
Dwell Duration at resonant frequency: 30 Minutes

Mechanical Shock
Method: EN 60068-2-27:2009
Pulse Shape: Half-Sine
Peak Acceleration: 30 G
Duration of the pulse: 11 mS

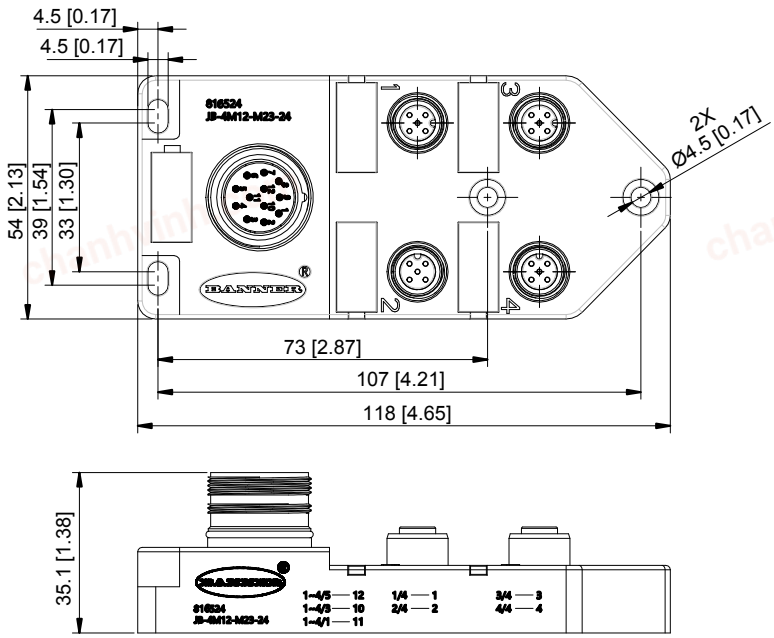
Environmental Ratings
IP67

Operating Conditions
–25 °C to +80 °C (–13 °F to +176 °F)

Certifications

Dimensions

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



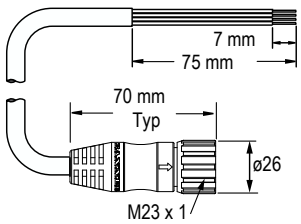
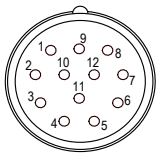
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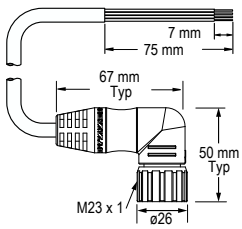
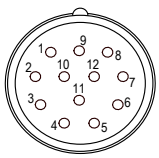
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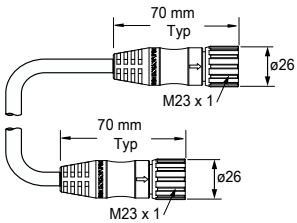
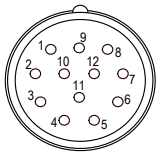
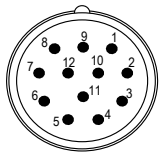
Accessories

Cordsets

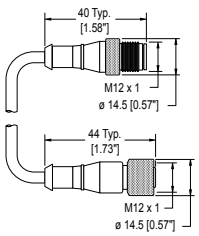
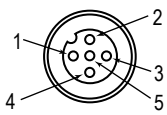
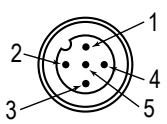
Home Run Cordsets

12-pin Single-Ended M23 Female Cordsets				
Model	**Length**	**Dimensions (mm)**	**Pinout (Female)**	
BC-M23F12-22-1	1 m (3.28 ft)			1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red 9 = Orange 10 = Tyrian Purple 11 = Black 12 = Violet
BC-M23F12-22-2	2 m (6.56 ft)			
BC-M23F12-22-5	5 m (16.4 ft)			
BC-M23F12-22-10	10 m (32.8 ft)			
BC-M23F12-22-15	15 m (49.2 ft)			
BC-M23F12-22-20	20 m (65.6 ft)			

12-pin Single-Ended M23 Female Right-Angle Cordsets				
Model	**Length**	**Dimensions (mm)**	**Pinout (Female)**	
BC-M23F12A-22-2	2 m (6.56 ft)			1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink 7 = Blue 8 = Red 9 = Orange 10 = Tyrian Purple 11 = Black 12 = Violet
BC-M23F12A-22-5	5 m (16.4 ft)			
BC-M23F12A-22-10	10 m (32.8 ft)			

12-pin Double-Ended M23 Female to M23 Male Cordsets				
Model	**Length**	**Dimensions (mm)**	**Pinout (Female)**	**Pinout (Male)**
BC-M23F12-M23M12-22-2	2 m (6.56 ft)			
BC-M23F12-M23M12-22-5	5 m (16.4 ft)			
BC-M23F12-M23M12-22-10	10 m (32.8 ft)			
BC-M23F12-M23M12-22-15	15 m (49.2 ft)			
BC-M23F12-M23M12-22-20	20 m (65.6 ft)		1 = White 2 = Brown 3 = Green 4 = Yellow 5 = Gray 6 = Pink	7 = Blue 8 = Red 9 = Orange 10 = Tyrian Purple 11 = Black 12 = Violet

Signal Port Cordsets

5-pin Double-Ended M12 Female to M12 Male Cordsets				
Model	**Length**	**Dimensions (mm)**	**Pinouts**	
BC-M12F5-M12M5-22-1	1 m (3.28 ft)		Female  Male 	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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Product Support and Maintenance

Repairs

Contact Banner Engineering for troubleshooting of this device. **Do not attempt any repairs to this Banner device; it contains no field-replaceable parts or components.** If the device, device part, or device component is determined to be defective by a Banner Applications Engineer, they will advise you of Banner's RMA (Return Merchandise Authorization) procedure.

> **IMPORTANT:** If instructed to return the device, pack it with care. Damage that occurs in return shipping is not covered by warranty.

Contact Us

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For worldwide locations and local representatives, visit www.bannerengineering.com.

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