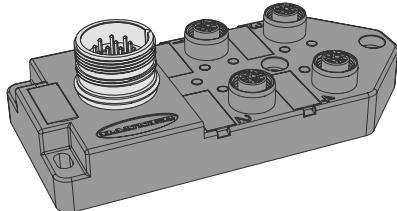


Features

4-port junction block

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



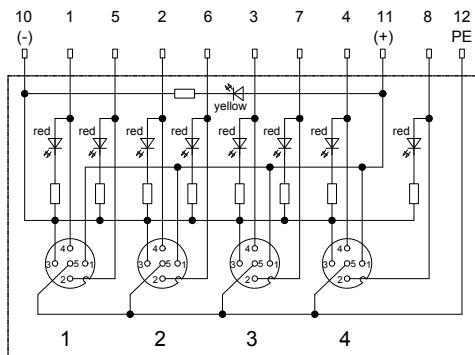
- M12 5-pin female termination with M23 12-pin male connector
- 4 ports
- NPN, PNP, and discrete models available
- 8 signals, 2 channels per port

Models

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

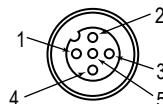
Wiring

Wiring Diagram



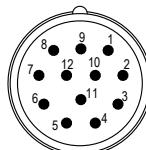
LED Indicating PNP
Other circuit diagram (NPN) can be customized

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

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

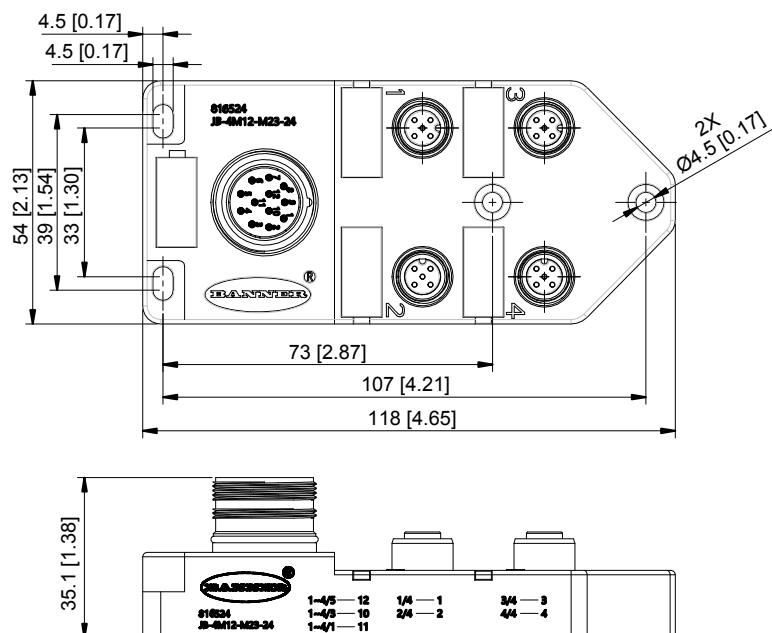
-25 °C to +80 °C (-13 °F to +176 °F)

Certifications



Dimensions

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



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)			

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
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)			Male

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

Banner Engineering Corp. | 9714 Tenth Avenue North | Plymouth, MN 55441, USA | Phone: +1 888 373 6767

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

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