

## Features

### 8-port Junction Block



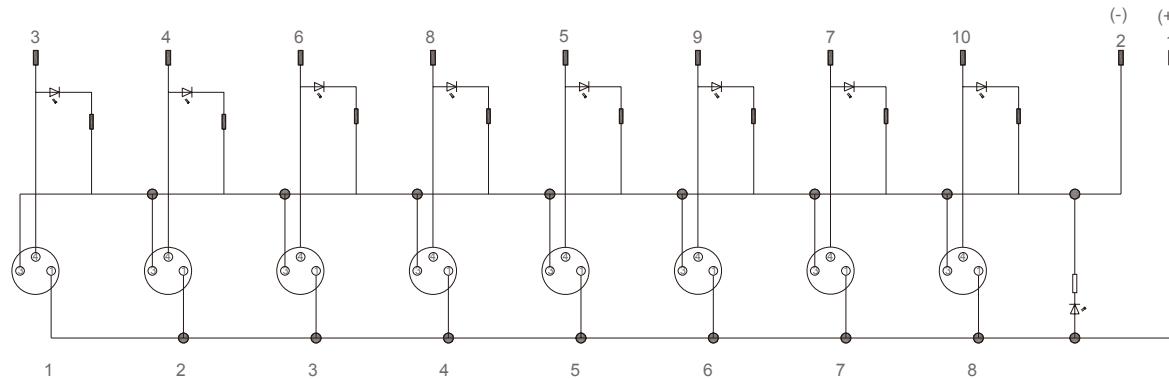
Banner's Junction Blocks are designed to reduce wiring and to simplify connecting multiple products.

- 3-pin M8 female termination with 12-pin M12 male connector
- 8 ports
- NPN, PNP, and discrete models available
- 8 Signals, Pin 4 each Port

## Models

Model	Output	Indication
JB-8M8-M12-P4	PNP	
JB-8M8-M12-N4	NPN	LED
JB-8M8-M12-4	Discrete	Non-LED

## Wiring



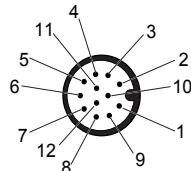
LED Indicating PNP  
Other circuit diagram (NPN) can be customized

### 3-pin M8 Female Pinout



1 = Brown  
3 = Blue  
4 = Black

### 12-pin M12 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

### Rated Current

1A per port / 3A total

### Indicators (LED models only)

Power LED: Red (0 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

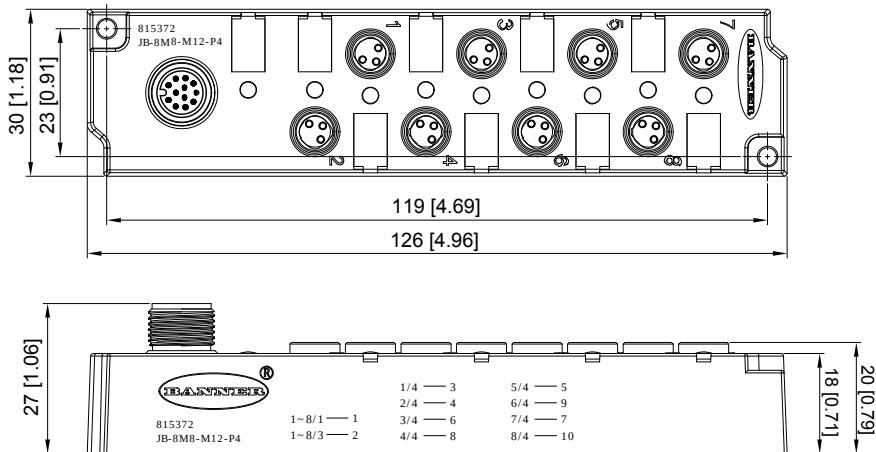
-25 °C to +80 °C (-13 °F to +176 °F)

### Certifications



## Dimensions

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



## Accessories

### Cordsets

#### Home Run Cordsets

12-pin A-Code Single-Ended M12 Female Cordsets				
Model	Length	Dimensions (mm)	Pinout (Female)	
BC-M12F12-24-2	2 m (6.56 ft)			
BC-M12F12-24-5	5 m (16.4 ft)			
BC-M12F12-24-10	10 m (30.81 ft)			
BC-M12F12A-24-2	2 m (6.56 ft)			
BC-M12F12A-24-5	5 m (16.4 ft)			
BC-M12F12A-24-10	10 m (30.81 ft)			

12-pin A-Code Double-Ended M12 Female to M12 Male Cordsets				
Model	Length	Dimensions (mm)	Pinout	
BC-M12F12-M12M12-24-2	2 m (6.56 ft)			
BC-M12F12-M12M12-24-5	5 m (16.4 ft)			
BC-M12F12-M12M12-24-10	10 m (30.81 ft)			

#### Signal Port Cordsets

3-pin Double-Ended M8 Female to M8 Male Cordsets (datasheet p/n 236620)				
Model	Length	Dimensions (mm)	Pinout	
BC-M8F3-M8M3-24-0.5	0.5 m (1.64 ft)			
BC-M8F3-M8M3-24-1	1 m (3.28 ft)			
BC-M8F3-M8M3-24-2	2 m (6.56 ft)			
BC-M8F3-M8M3-24-5	5 m (16.4 ft)			
BC-M8F3-M8M3-24-8	8 m (26.25 ft)			
BC-M8F3-M8M3-24-10	10 m (30.81 ft)			

## 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](http://www.bannerengineering.com).

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