

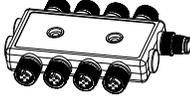
Molded Junction Blocks - Parallel Wired



Datasheet

Figure 1. R50 Model

Figure 2. R95 Model



- Conjoin multiple devices together into one connector
- Rugged design; easy installation with no assembly or individual wiring required
- 5-pin M12 male home-run quick disconnect connector
- 5-pin M12 female quick disconnect connectors
- Rugged over-molded design meets IP65, IP67, and IP68

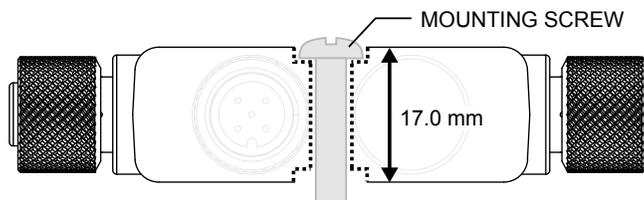
Models

Model	Ports	Homerun Connector	Wiring
R50-4M125-M125Q-P	(4) Integral 5-pin M12 female quick-disconnect connector	(1) Integral 5-pin M12 male quick-disconnect connector	Parallel
R95-8M125-M125Q-P	(8) Integral 5-pin M12 female quick-disconnect connector		

Mechanical Installation

Install the Molded 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 Molded 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 Molded Junction Block's mounting screw during installation. Overtightening can affect the performance of the Molded Junction Block.



Wiring

Figure 3. R50 Model

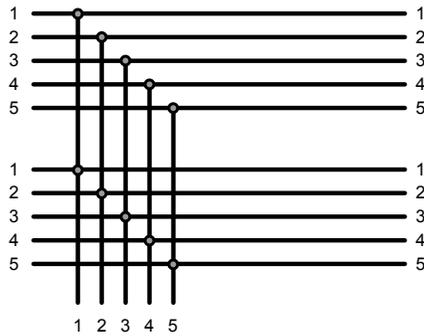
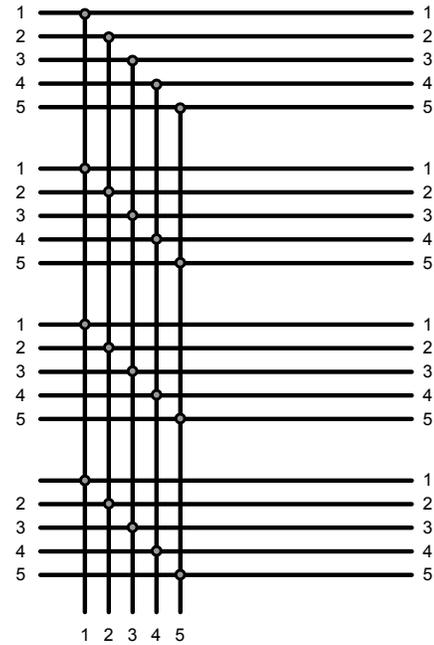


Figure 4. R90 Model



Specifications

Voltage Input Range

30 V DC

Maximum Current

4 A

Construction

Coupling Material: Nickel-plated brass
 Connector Body: PVC translucent black

Vibration and Mechanical Shock

Meets IEC 60068-2-6 requirements (Vibration: 10 Hz to 55 Hz, 0.5 mm amplitude, 5 minutes sweep, 30 minutes dwell)
 Meets IEC 60068-2-27 requirements (Shock: 15G 11 ms duration, half sine wave)

Environmental Ratings

IP65, IP67, IP68

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.

Figure 5. R50 Model

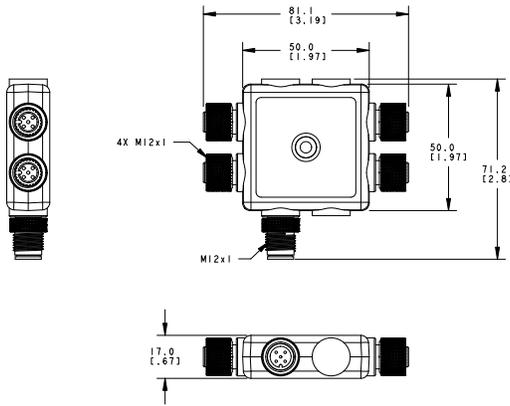
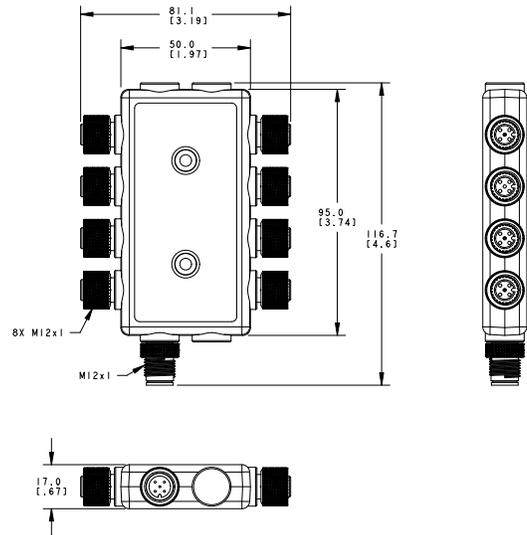


Figure 6. R95 Model



Accessories

Cordsets

5-Pin Threaded M12 Cordsets—Double Ended					
Model	Length	Style	Dimensions	Pinout (Male)	Pinout (Female)
MQDEC-501SS	0.31 m (1.02 ft)	Male Straight/ Female Straight			
MQDEC-503SS	0.91 m (2.99 ft)				
MQDEC-506SS	1.83 m (6 ft)				
MQDEC-512SS	3.66 m (12 ft)				
MQDEC-515SS	5 m (16.4 ft)				
MQDEC-530SS	9 m (29.5 ft)				
MQDEC-550SS	15 m (49.2 ft)				

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

5-Pin Threaded M12 Cordsets—Double Ended					
Model	Length	Style	Dimensions	Pinout (Male)	Pinout (Female)
MQDEC-501RS	0.31 m (1.02 ft)	Male Right-angle/ Female Straight			
MQDEC-503RS	0.91 m (2.99 ft)				
MQDEC-506RS	1.83 m (6 ft)				
MQDEC-512RS	3.66 m (12 ft)				

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

4-Pin Threaded M12 Cordsets—Double Ended				
Model	Length	Style	Dimensions	Pinout
MQDEC-401SS	0.31 m (1 ft)	Male Straight/ Female Straight		<p>Female</p> <p>Male</p> <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDEC-403SS	0.91 m (2.99 ft)			
MQDEC-406SS	1.83 m (6 ft)			
MQDEC-412SS	3.66 m (12 ft)			
MQDEC-420SS	6.10 m (20 ft)			
MQDEC-430SS	9.14 m (30.2 ft)			
MQDEC-450SS	15.2 m (49.9 ft)	Male Right-Angle/ Female Straight		<p>Female</p> <p>Male</p> <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDEC-403RS	0.91 m (2.99 ft)			
MQDEC-406RS	1.83 m (6 ft)			
MQDEC-412RS	3.66 m (12 ft)			
MQDEC-420RS	6.10 m (20 ft)			
MQDEC-430RS	9.14 m (30.2 ft)	Male Right-Angle/ Female Right-Angle		<p>Female</p> <p>Male</p> <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDEC-450RS	15.2 m (49.9 ft)			
MQDEC-403RR	0.9 m (2.9 ft)			
MQDEC-406RR	1.8 m (5.9 ft)			
MQDEC-412RR	3.6 m (11.8 ft)	Male Right-Angle/ Female Right-Angle		<p>Female</p> <p>Male</p> <p>1 = Brown 2 = White 3 = Blue 4 = Black</p>
MQDEC-420RR	6.1 m (20 ft)			

Maintenance and Service

Do not use alcoholic cleaning agents. The Molded Junction Block is maintenance-free.

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