

Brad® Safety MPIS Distribution Box

molex®

Rugged, IP67-rated Brad® Safety MPIS Distribution Boxes with M12 connections are dedicated to the management of safety devices installed around the machine, and simplify safety wiring in factory-automation environments



Brad® Safety MPIS Distribution Boxes
120119-0510, 120119-0500, 120119-0520

Product Features and Advantages*

Pre-wired Safety MPIS (Multi-Port Interconnection System) Distribution Box concentrates multiple IO signals into one home-run cable

Ribbon cable assemblies enable consistent cable management implementations for thermal solutions

Color options available for the MPIS, tees and cordsets

Targets the easy identification of the safety infrastructures compared to the standard IO infrastructure. Custom colors available

Scalable safety solutions

Ranges from simplified serializing to improved safety management. Fulfills different customer application requirements. Enables simple and efficient system expansion

Customization options for I/O port of the MPIS modules

Combines different types of signals (Safe 4 Poles, Safe 8 poles, Standard I/O 5 Poles, etc.). Enhances operational and application flexibility to dedicated customer requirements and regional safety standards. Opens a path to work directly with safety device manufacturers and create private labeled solution

Combination of safety inputs (4 ports, 8 pins) with standard signal inputs (4 ports, 4 and 5 pins) in one 8-port MPIS
Permits installation of standard I/O wiring systems in limited space. Maximizes cost-performance and safety design flexibility

Seal rated IP67

Designed for harsh industrial applications both indoors and outdoors. Eliminates ingress of dust and light jets of water

Applications

Industrial Automation

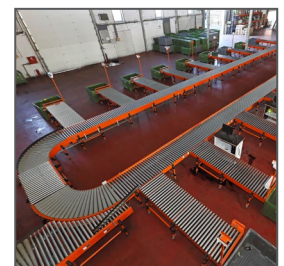
- Food and Beverage
 - Machine Manufacturers
- Machining Centers
 - Grinding and Milling
- Conveying and Sorting
 - Baggage Handling
 - Postal Sorting
 - Packaging Applications
- Safety Device Manufacturers
 - Safe Switches
 - Light Curtains
 - Drives and Motors
 - Locking Systems



Food and Beverage



Robot Cells



Conveying and Sorting

Specifications

REFERENCE INFORMATION

Packaging:
UL File No.: E152210
Mates With: M12 Micro-Change Cordsets
Designed In: Millimeters
NEMA Rating: IP67
Keying: A-Coding

ELECTRICAL

Voltage (max.):
Module: 120V DC
Port: 10-30V DC
Current (max.):
Module: 12.0A
Port: 4.0A
Poles: 4, 5 or 8
Ports: 4 or 8
Configuration: Single I/O per Port

PHYSICAL

Housing: PBT
Cable Jacket: TPU
Metal: Copper Alloy
Contact Plating: Gold over Nickel
Orientation: Top Mount
Cable Type: WSOR
Operating Temperature: -25 to +85°C
LED Indicator: No

Ordering Information

Order No.	Ports	Poles per Port	Housing Color
120248-0500	8	4 Ports with 8 Poles	Black
		4 Ports with 5 Poles	
120248-0510	4	8 Poles	Red
120248-0520		5 Poles	

Order No.	Type	Poles	Gender
120065-2378	Single-Ended Cordset	5	Plug
120065-2383		8	
120065-2388		5	Receptacle
120065-2393		8	
120066-5456	Double-Ended Cordset	5	Plug - Receptacle
120066-5461		8	
120068-8219	Y Splitter	5	1 Plug – 2 Receptacles
120076-8034	Grounding Plug	5	Plug