Brad Safety MPIS Distribution Box

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 factoryautomation environments

Product Features and Advantages*

molex



Brad Safety MPIS Distribution Boxes 120248-0520, 120248-0500, 120248-0510

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 costperformance 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



Food and Beverage



Robot Cells



Conveying and Sorting

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 implementationsfor 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. Fulfils different customer application requirements. Enables simple and efficient system expansion

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

Brad Safety MPIS Distribution Box



Specifications

REFERENCE INFORMATION

UL File No.: E152210 Mates With: M12 Micro-Change Cordsets IP Rating: IP67 Keying: A-Coding

ELECTRICAL

Voltage (max.): Port: 10-30V DC Current (max.): Module: 12.0A Port: 4.0A Poles: 4, 5 or 8 Ports: 4 or 8

PHYSICAL

Housing: PBT Metal: Copper Alloy Contact Plating: Gold over Nickel Orientation: Top Mount Cable Type: WSOR Operating Temperature: -25 to +85°C

Safety MPIS Wiring Diagrams







Ordering Information

Safety MPIS Distribution Boxes

Order No.	Ports	Туре	Housing Color	Length	Engineering No.
120248-0500	Q	4 Safety Ports with 8 Pole M12 4 Standard I/O Ports with 5 Pole M12	Black	5 Meter*	BTB851P-FBW-05
120248-0510		8 Safety Ports with 8 Pole M12	Red	5 Meter*	BTR831P-FBW-05
120248-0520	4	4 Safety Ports with 4 Pole M12	neu	N/A	BTR4300-FBF

Safety Cordsets and Patchcords (used on Safety Ports) Safety Splitters, Tees and Grounding Plugs

Order No.	Туре	Poles	Gender	Length	Engineering No.	
120065-2378	Single-Ended Cordset	А	Male		804006B30M010R	
120065-2388		4	Female		804000B30M010R	
120065-2383			8	Male	1 Meter*	808006B41M010R
120065-2393		0	Female	INIELEI	808000B41M010R	
120066-5456	120066-5456 Double- Ended 120066-5461 Patchcord	4	Male - Female		884030B30M010R	
120066-5461		8	Male - Female		888030B41M010R	

Standard Cordsets and Patchcords (used on 4 Standard I/O Ports of #BTB851P-FBW-05)

Order No.	Туре	Poles	Gender	Length	Engineering No.
120065-9526	Single-Ended Cordset	Male		1 Meter*	805006B30M010
120066-8992	Double-Ended Patchcord	5	Male - Female		885030B30M010

Order No.	Туре	Poles	Gender	Length	Engineering No.
120065-2378	Y Splitter	4	Male - Female/Female		SAFESPLIT000
120065-2388	TEE	4	Female - Male - Female	N/A	SAFETEE000
120076-8034	Grounding Plug	4	Male	N/A	804006R-SP000
120076-8035		8	Male		808006R-SP000

*Additional lengths available, contact our Automation Solutions Technical Support at (800) 225-7724

www.molex.com/link/passivempis.html

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