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 factoryautomation environments

Product Features and Advantages*



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

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

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



systems in limited space. Maximizes costperformance and safety design flexibility

nts. Enables simple and

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

Seal rated IP67

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

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

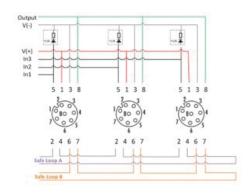
Contact Plating: Gold over Nickel

Orientation: Top Mount Cable Type: WSOR

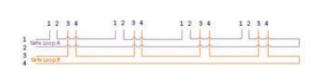
Operating Temperature: -25 to +85°C

Safety MPIS Wiring Diagrams

8-Pole Port



4-Pole Port



Ordering Information

Safety MPIS Distribution Boxes

Order No.	Ports	Туре	Housing Color	Length	Length Engineering No.	
120248-0500	0	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	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		4	Male		804006B30M010R	
120065-2388	Single-Ended Cordset		Female		804000B30M010R	
120065-2383			8	Male	1 Meter*	808006B41M010R
120065-2393		ŏ	Female	i ivieter	808000B41M010R	
120066-5456	Double- Ended	4	Male - Female		884030B30M010R	
120066-5461			Male - Female		888030B41M010R	

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	4	Male	IV/A	804006R-SP000	
120076-8035	Plug	8	Male		808006R-SP000	

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

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	0	Male - Female		885030B30M010

www.molex.com/link/passivempis.html