

Part Number Keys	S2
M12 (<i>eurofast</i>®)	S4
M8 (<i>picofast</i>®)	S42
7/8" (<i>minifast</i>®)	S52
1/2" (<i>microfast</i>®)	S66
Accessories	S70

Features

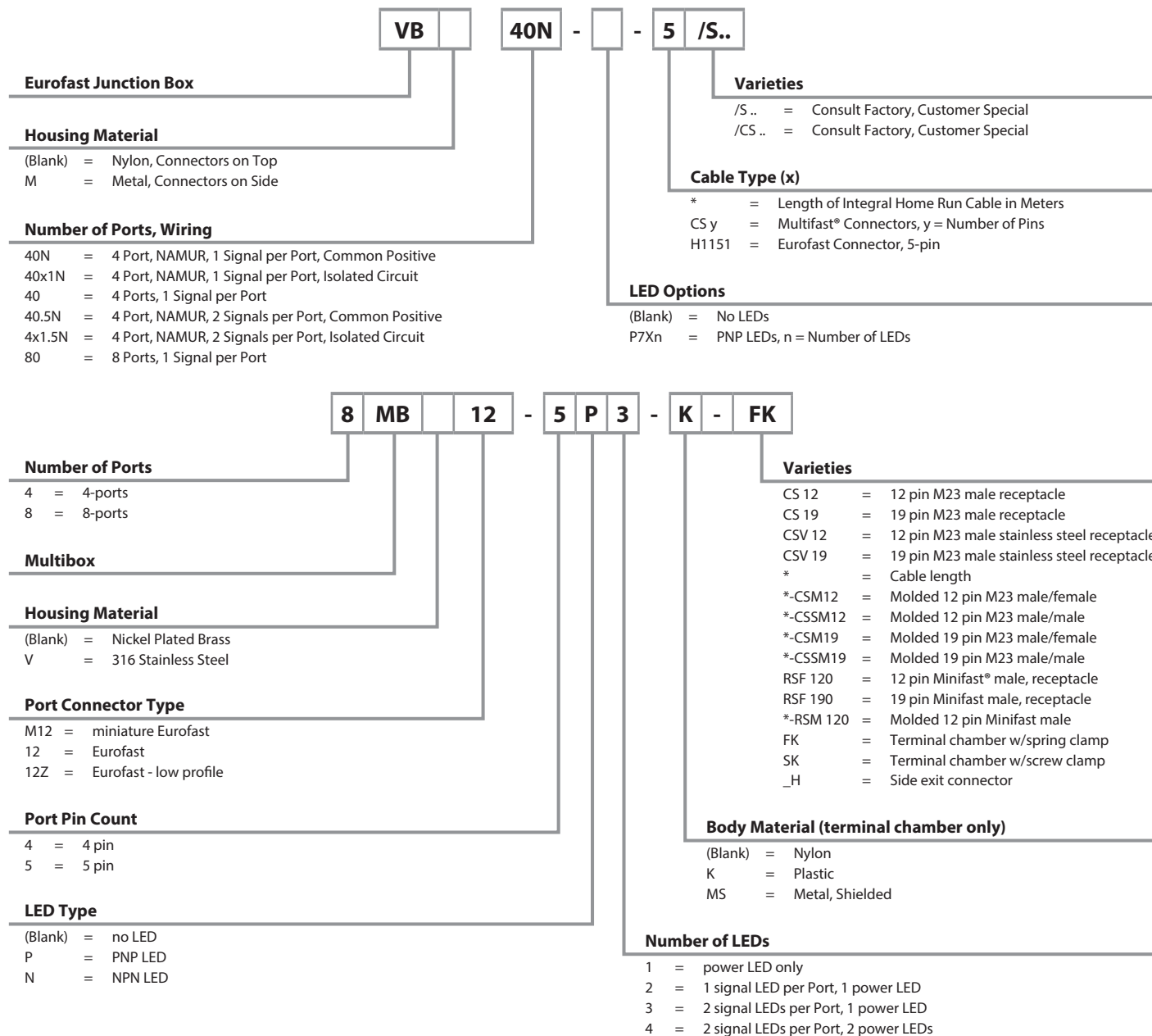
- Products for M12 Eurofast, M8 Picofast, 7/8" Minifast and 1/2" Microfast
- Consolidate up to 16 I/O signals
- AC or DC options
- PNP LED, NPN LED and non-LED offerings
- Multiple housing styles and materials



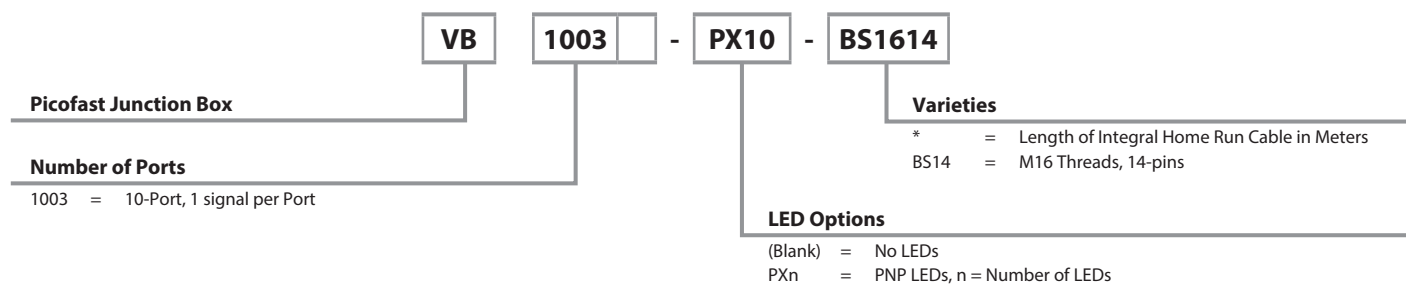
Junction Box Connectivity Products

M12 Eurofast® Standard and Low Profile Junction Box Part Number Keys

Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.

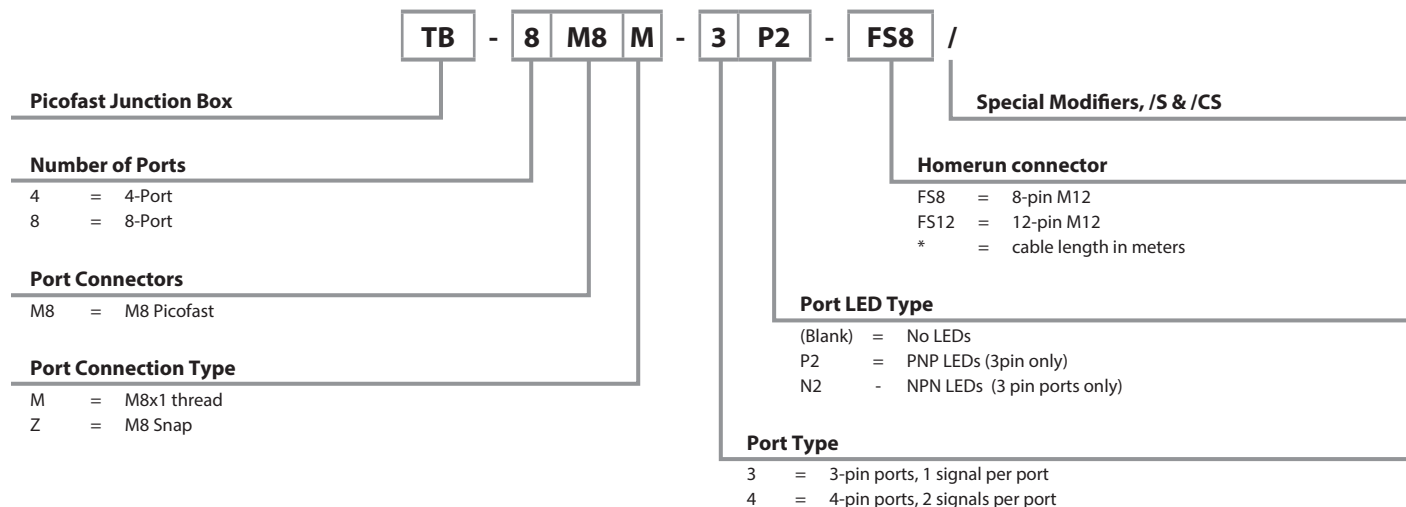


M8 Picofast® Junction Box Part Number Key

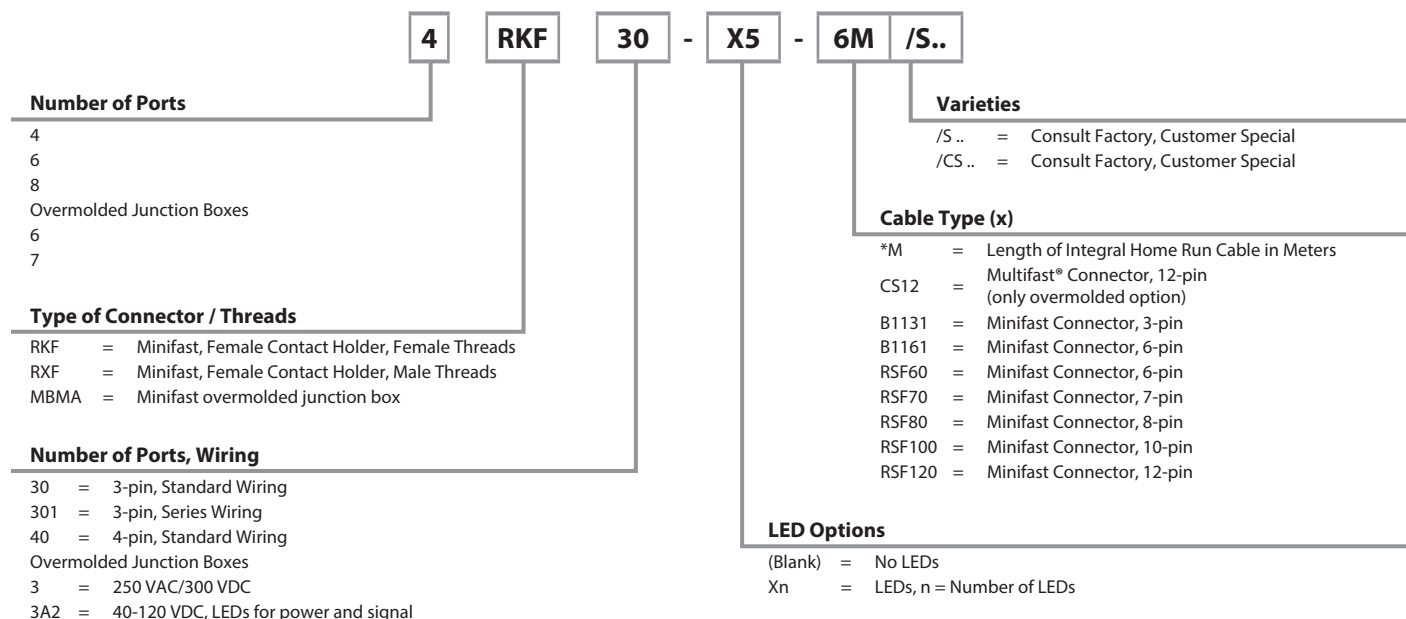


M8 Picofast® Junction Box Part Number Key

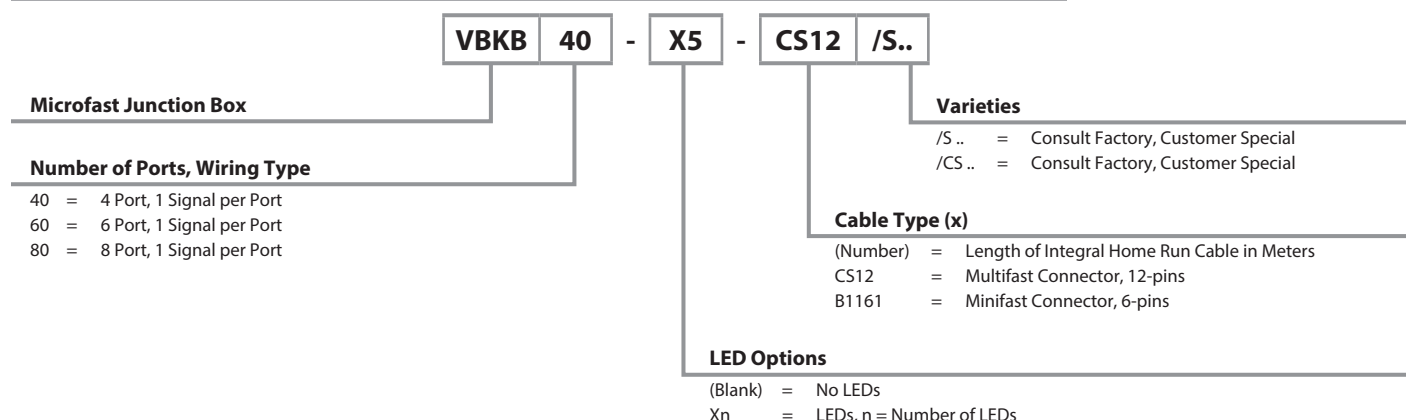
Part Number Keys are to assist in IDENTIFICATION ONLY. Consult factory for catalog items not identified.



7/8-16 UN Minifast® Junction Box Part Number Key



1/2" Microfast® Junction Box Part Number Key



Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

- Single Input/Output per Port
- Rugged Plastic Housing
- Available with or without LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Threaded M12 Connection

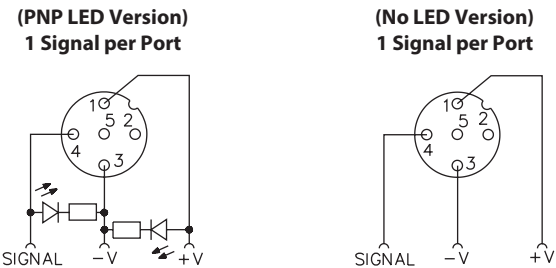


Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
4-port J-box 1 signal per port, Integral cable	2 A/signal, 9 A total Yellow PVC cable 7/18 AWG foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	4MB12Z-4-*	4MB12Z-4P2-*	4MB12Z-4N2-*
		+V	BN	Port 1	WH			
		- V	BU	Port 2	GN			
		Ground	GN / YE	Port 3	YE			
4-port J-box 1 signal per port, Multifast® front connector	2 A/signal, 9 A total 12-pin Multifast connector 7 conductors. Mates with CKCM 12-7-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	4MB12Z-4-CS12	4MB12Z-4P2-CS12	4MB12Z-4N2-CS12
		+V	11/BN	Port 1	1 / WH			
		- V	10/BU	Port 2	2 / GN			
		Ground	12 / GN/YE	Port 3	3 / YE			
4-port J-box 1 signal per port, Multifast side exit connector	2 A/signal, 9 A total 12-pin Multifast connector 7 conductors. Mates with CKCM 12-7-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	4MB12Z-4-CS12H	4MB12Z-4P2-CS12H	4MB12Z-4N2-CS12H
		+V	11/BN	Port 1	1 / WH			
		- V	10/BU	Port 2	2 / GN			
		Ground	12 / GN/YE	Port 3	3 / YE			

* Cable length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

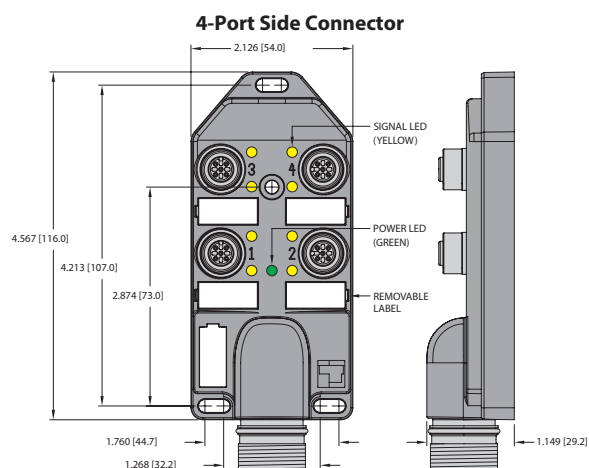
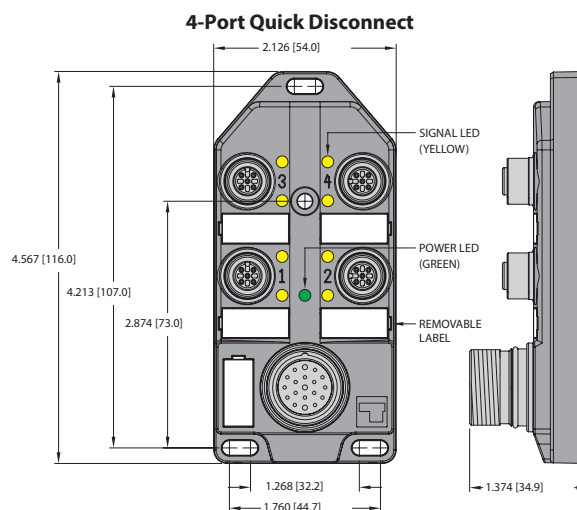
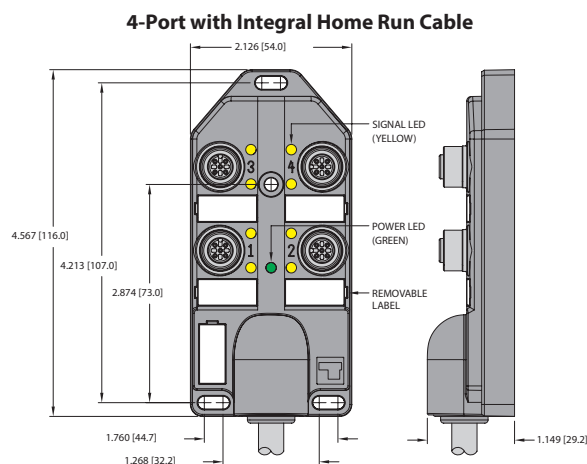


Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

Specifications

Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP68, IP69K
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions



Pinout

5-Pin Eurofast	12-Pin Multifast®
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

- Single Input/Output per Port
- Rugged Plastic Housing
- Available with or without LEDs
- Minifast® Quick Disconnect or Integral Home Run Cable with Minifast Connector
- Threaded M12 Connection



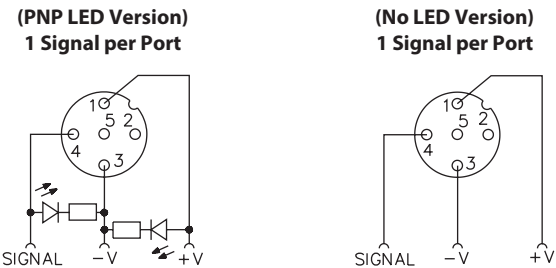
4-Port, 1 Signal per Port, 10-30 VDC

Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
4-port J-box 1 signal per port, integral cable with Minifast connector	2 A/signal 7 A total 12-pin Minifast connector 7 conductors. Mates with RKM 126-*M	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	4MB12Z-4-*-RSM 120	4MB12Z-4P2-*-RSM 120	4MB12Z-4N2-*-RSM 120
		+V	10 / RD	Port 1	1 / OG			
		- V	11 / WH	Port 2	2 / BU			
		Ground	9 / GN	Port 3	3 / WH/BK			
				Port 4	4 / RD/BK			
4-port J-box 1 signal per port, Minifast connector	2 A/signal 7 A total 12-pin Minifast connector 7 conductors. Mates with RKM 126-*M	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	4MB12Z-4-RSF120	4MB12Z-4P2-RSF120	-----
		+V	10 / RD	Port 1	1 / OG			
		- V	11 / WH	Port 2	2 / BU			
		Ground	9 / GN	Port 3	3 / WH/BK			
				Port 4	4 / RD/BK			

* Cable length in meters.

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Functional Wiring Diagrams



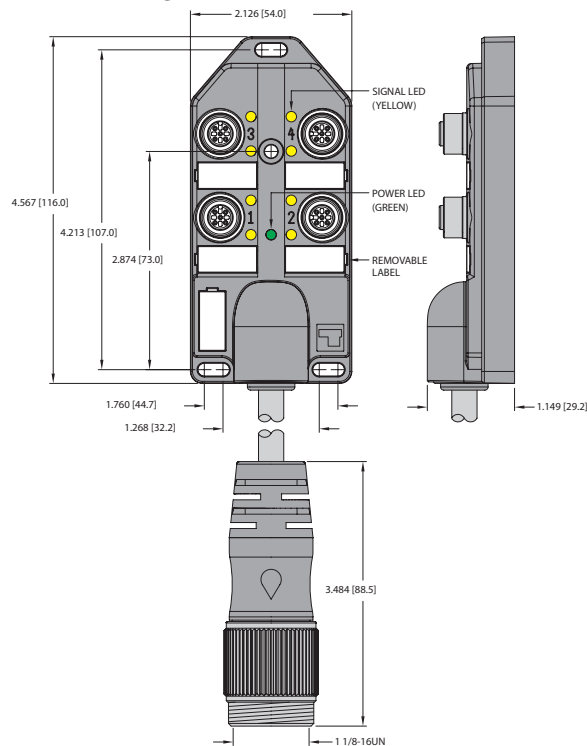
Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

Specifications

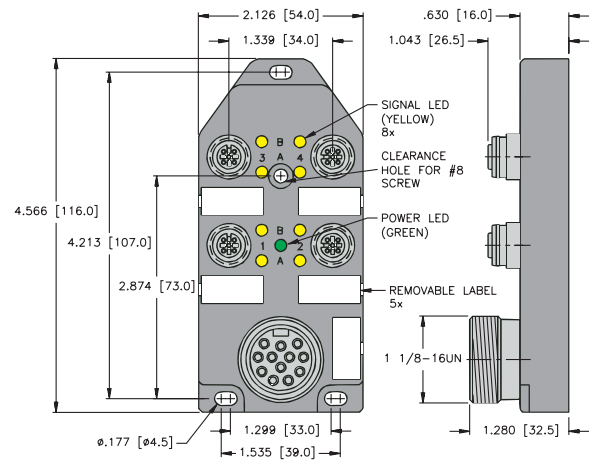
Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP68, IP69K
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

4-Port, Integral Home Run with Minifast® Connector



4-Port, Minifast Quick Disconnect



Pinout

5-Pin Eurofast	12-Pin Minifast
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

- Dual Input/Output per Port
- Rugged Plastic Housing
- Available with or without LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Threaded M12 Connection



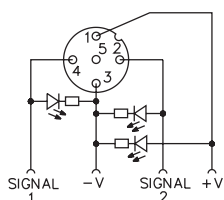
4-Port, 2 Signals per Port, 10-30 VDC

Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
4-port J-box 2 signals per port Integral cable	2 A/signal 9 A total Yellow PVC cable 3/18 AWG, 8/22 AWG foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	4MB12Z-5-*	4MB12Z-5P3-*	4MB12Z-5N3-*
		+V	BN	Port 2, Sig 1	GN			
		-V	BU	Port 2, Sig 2	RD / BU			
		Ground	GN / YE	Port 3, Sig 1	YE			
		Port 1, Sig 1	WH	Port 3, Sig 2	WH / GN			
		Port 1, Sig 2	GY / PK	Port 4, Sig 1	GY			
				Port 4, Sig 2	BN / GN			
4-port J-box 2 signals per port Multifast® connector	2 A/signal 9 A total 19-pin Multifast connector 11 conductors. Mates with CKM 19-11-*	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	4MB12Z-5-CS19	4MB12Z-5P3-CS19	4MB12Z-5N3-CS19
		+V	19 / BN	Port 2, Sig 1	5 / GN			
		-V	6 / BU	Port 2, Sig 2	4 / RD / BU			
		Ground	12 / GN / YE	Port 3, Sig 1	16 / YE			
		Port 1, Sig 1	15 / WH	Port 3, Sig 2	8 / WH / GN			
		Port 1, Sig 2	7 / GY / PK	Port 4, Sig 1	3 / GY			
				Port 4, Sig 2	14 / BN / GN			
4-port J-box 2 signals per port Multifast, side exit connector	2 A/signal 9 A total 19-pin Multifast connector 11 conductors. Mates with CKM 19-11-*	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	4MB12Z-5-CS19H	4MB12Z-5P3-CS19H	4MB12Z-5N3-CS19H
		+V	19 / Bn	Port 2, Sig 1	5 / GN			
		-V	6 / Bu	Port 2, Sig 2	4 / Rd / Bu			
		Ground	12 / GN / YE	Port 3, Sig 1	16 / YE			
		Port 1, Sig 1	15 / WH	Port 3, Sig 2	8 / WH / GN			
		Port 1, Sig 2	7 / Gy / Pk	Port 4, Sig 1	3 / Gy			
				Port 4, Sig 2	14 / Bn / Gn			

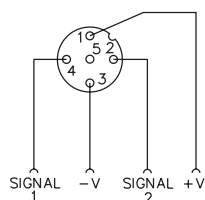
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
2 Signals per Port



(No LED Version)
2 Signals per Port

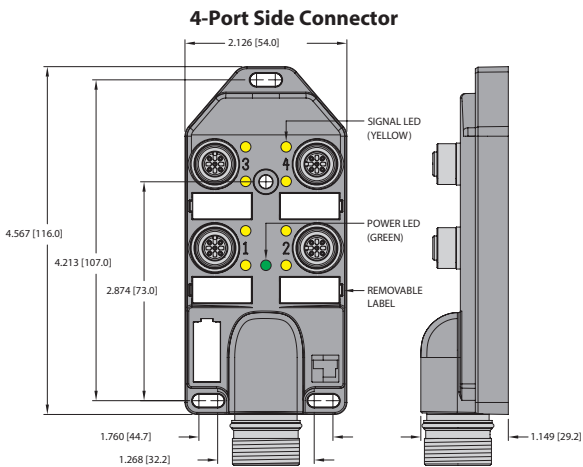
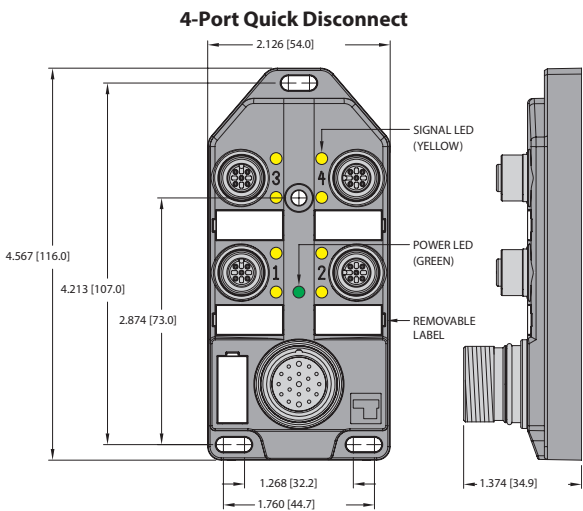
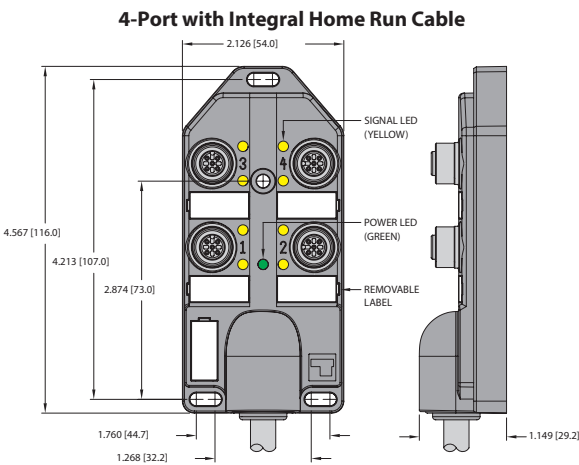


Multibox® Eurofast® Low Profile Junction Boxes, 4-Port

Specifications

Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP68, IP69K
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions



Pinout

5-Pin Eurofast	19-Pin Multifast®
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 6-Port

- Single Input/ Output per Port
- Rugged Plastic Housing
- Available with or without LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Threaded M12 Connection



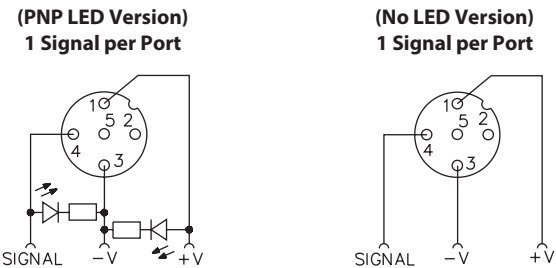
6-Port, 1 Signal per Port, 10-30 VDC

Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
6-port J-box 1 signal per port, Integral cable	2 A/signal 9 A total Yellow PVC cable 9/18 AWG foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	6MB12Z-4-*	6MB12Z-4P2-*	6MB12Z-4N2-*
		+V	BN	Port 1	WH			
		- V	BU	Port 2	GN			
		Ground	GN / YE	Port 3	YE			
				Port 4	GY			
				Port 5	PK			
				Port 6	RD			
6-port J-box 1 signal per port, Multifast® connector	2 A/signal 9 A total 12-pin Multifast connector 9 conductors. Mates with CKCM 12-9-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	6MB12Z-4-CS12	6MB12Z-4P2-CS12	6MB12Z-4N2-CS12
		+V	11 / BN	Port 1	1 / WH			
		- V	10 / BU	Port 2	2 / GN			
		Ground	12 / GN / YE	Port 3	3 / YE			
				Port 4	4 / GY			
				Port 5	5 / PK			
				Port 6	6 / RD			
6-port J-box 1 signal per port, Multifast side exit connector	2 A/signal 9 A total 12-pin Multifast connector 9 conductors. Mates with CKCM 12-9-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	6MB12Z-4-CS12H	6MB12Z-4P2-CS12H	6MB12Z-4N2-CS12H
		+V	11 / BN	Port 1	1 / WH			
		- V	10 / BU	Port 2	2 / GN			
		Ground	12 / GN / YE	Port 3	3 / YE			
				Port 4	4 / GY			
				Port 5	5 / PK			
				Port 6	6 / RD			

* Cable length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

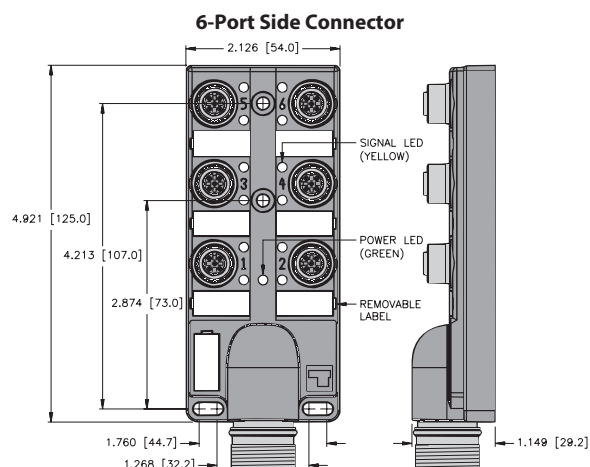
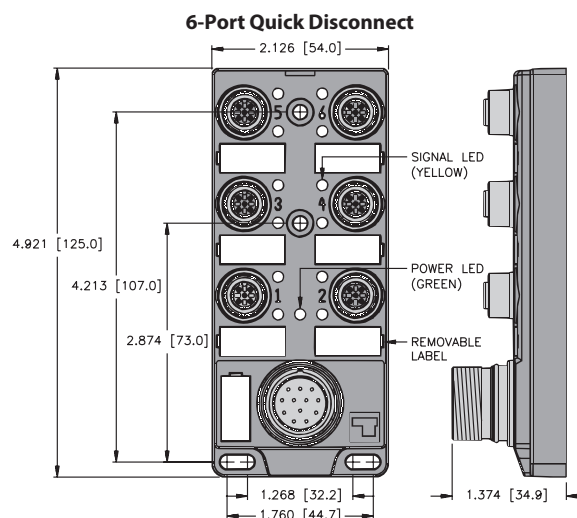
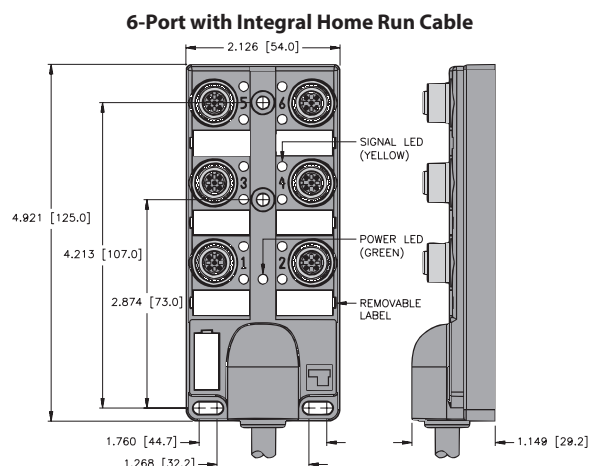


Multibox® Eurofast® Low Profile Junction Boxes, 6-Port

Specifications

Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP68, IP69K
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (7 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions



Pinout

5-Pin Eurofast	12-Pin Multifast®
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Multibox® Eurofast® Low Profile Junction Boxes, 6-Port

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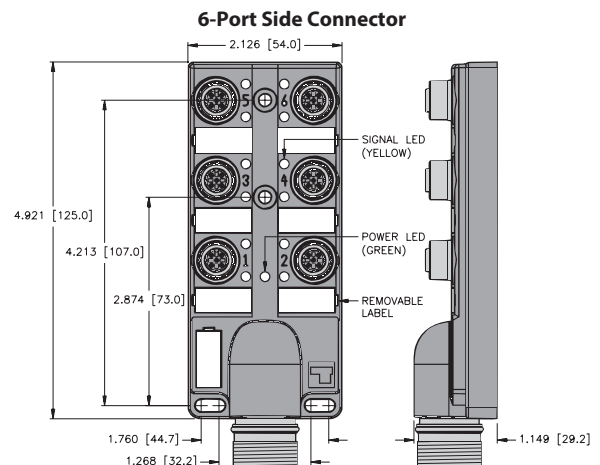
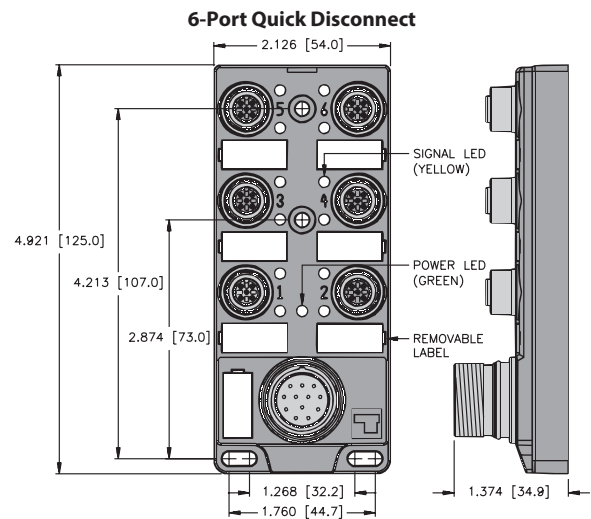
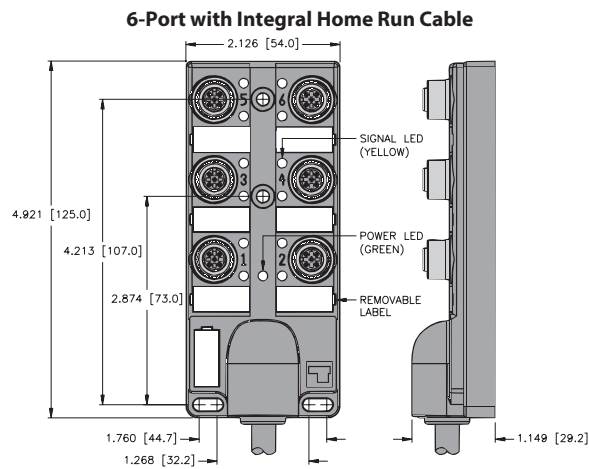
Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
6-port J-box 2 signals per port Integral cable	2 A/signal	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	6MB12Z-5-*	6MB12Z-5P3-*	6MB12Z-5N3-*
	+V		BN	Port 3, Sig 1	YE			
	9 A total		BU	Port 3, Sig 2	WH / GN			
	Yellow PVC cable	Ground	GN / YE	Port 4, Sig 1	GY			
	3/18 AWG,	Port 1, Sig 1	WH	Port 4, Sig 2	BN / GN			
	12/22 AWG	Port 1, Sig 2	GY / PK	Port 5, Sig 1	PK			
	foil shield and	Port 2, Sig 1	GN	Port 5, Sig 2	WH/YE			
	22 AWG drain	Port 2, Sig 2	RD / BU	Port 6, Sig 1	RD			
			Port 6, Sig 2	YE/BN				
6-port J-box 2 signals per port Multifast® connector	2 A/signal	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	6MB12Z-5-CS19	6MB12Z-5P3-CS19	6MB12Z-5N3-CS19
	+V		19 / BN	Port 3, Sig 1	16 / YE			
	9 A total		6 / BU	Port 3, Sig 2	8 / WH / GN			
	19-pin Multifast	Ground	12 / GN / YE	Port 4, Sig 1	3 / GY			
	connector	Port 1, Sig 1	15 / WH	Port 4, Sig 2	14 / BN / GN			
	15 conductors.	Port 1, Sig 2	7 / GY / PK	Port 5, Sig 1	17 / PK			
	Mates with	Port 2, Sig 1	5 / GN	Port 5, Sig 2	9 / WH/YE			
	CKM 19-15-*	Port 2, Sig 2	4 / RD / BU	Port 6, Sig 1	2 / RD			
			Port 6, Sig 2	13 / YE/BN				
6-port J-box 2 signals per port Multifast, side exit connector	2 A/signal	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	6MB12Z-5-CS19H	6MB12Z-5P3-CS19H	6MB12Z-5N3-CS19H
	+V		19 / BN	Port 3, Sig 1	16 / YE			
	9 A total		6 / BU	Port 3, Sig 2	8 / WH / GN			
	19-pin Multifast	Ground	12 / GN / YE	Port 4, Sig 1	3 / GY			
	connector	Port 1, Sig 1	15 / WH	Port 4, Sig 2	14 / BN / GN			
	15 conductors.	Port 1, Sig 2	7 / GY / PK	Port 5, Sig 1	17 / PK			
	Mates with	Port 2, Sig 1	5 / GN	Port 5, Sig 2	9 / WH/YE			
	CKM 19-15-*	Port 2, Sig 2	4 / RD/BU	Port 6, Sig 1	2 / RD			
			Port 6, Sig 2	13 / YE/BN				

We reserve the right to make technical alterations without prior notice

Specifications

Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP68, IP69K
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (7 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions



Pinout

5-Pin Eurofast	19-Pin Multifast®
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

- Single Input/Output per Port
- Rugged Plastic Housing
- Available with or without LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Threaded M12 Connection



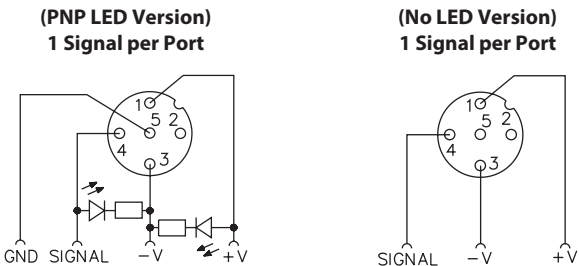
8-Port, 1 Signal per Port, 10-30 VDC

Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
8-port J-box 1 signal per port Integral cable	2 A/signal, 9 A total Yellow PVC cable 11/18 AWG, foil shield and 20 AWG drain with PUR cable, add /S90	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8MB12Z-4-*	8MB12Z-4P2-*	8MB12Z-4N2-*
		+V	BN	Port 4	GY			
		-V	BU	Port 5	PK			
		Ground	GN / YE	Port 6	RD			
		Port 1	WH	Port 7	BK			
		Port 2	GN	Port 8	VT			
		Port 3	YE					
8-port J-box 1 signal per port Multifast® connector	2 A/signal, 9 A total 12-pin Multifast connector 11 conductors. Mates with CKCM 12-11-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	8MB12Z-4-CS12	8MB12Z-4P2-CS12	8MB12Z-4N2-CS12
		+V	11 / BN	Port 4	4 / GY			
		-V	10 / BU	Port 5	5 / PK			
		Ground	12 / GN / YE	Port 6	6 / RD			
		Port 1	1 / WH	Port 7	7 / BK			
		Port 2	2 / GN	Port 8	8 / VT			
		Port 3	3 / YE					
8-port J-box 1 signal per port Multifast, side exit connector	2 A/signal, 9 A total 12-pin Multifast connector 11 conductors. Mates with CKCM 12-11-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	8MB12Z-4-CS12H	8MB12Z-4P2-CS12H	8MB12Z-4N2-CS12H
		+V	11 / BN	Port 4	4 / GY			
		-V	10 / BU	Port 5	5 / PK			
		Ground	12 / GN / YE	Port 6	6 / RD			
		Port 1	1 / WH	Port 7	7 / BK			
		Port 2	2 / GN	Port 8	8 / VT			
		Port 3	3 / YE					

* Cable length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

Specifications

Housing: Nylon

Connectors: Eurofast: Nylon or TPU

Contacts: Gold plated brass

Thread Inserts: Nickel plated brass

Cable: See table

Temperature: -40 °C to +85 °C (-40 °F to +185 °F)

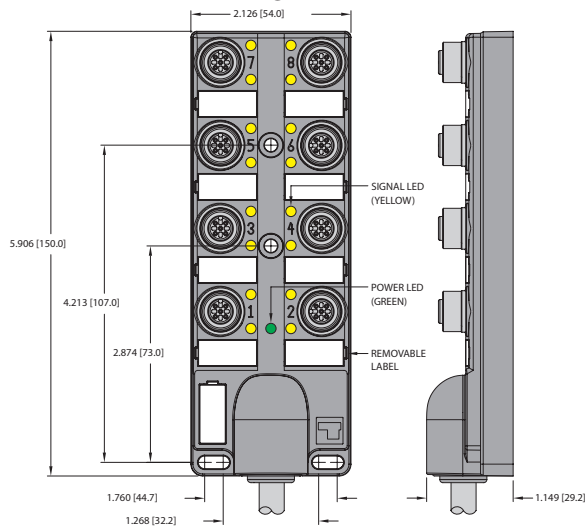
Protection: IEC IP68, IP69K

Accessories: (2) VZ 3 closure caps and a VZ 12 label kit (9 labels), included

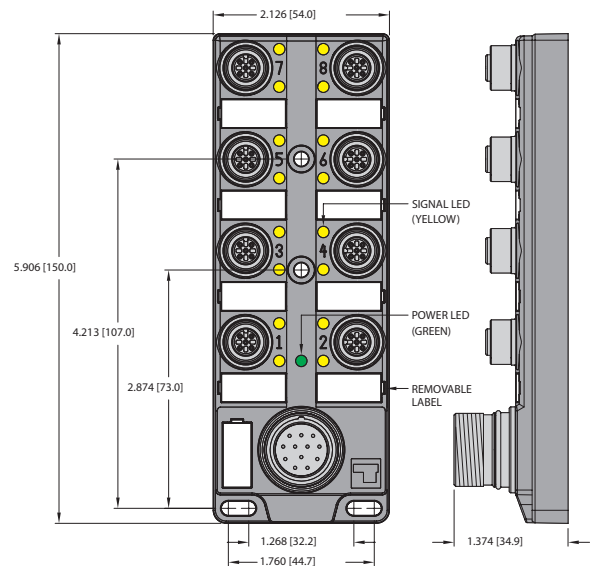
Cable Length: Standard length is nominal 5 meters. Other lengths available by request - Consult factory

Dimensions

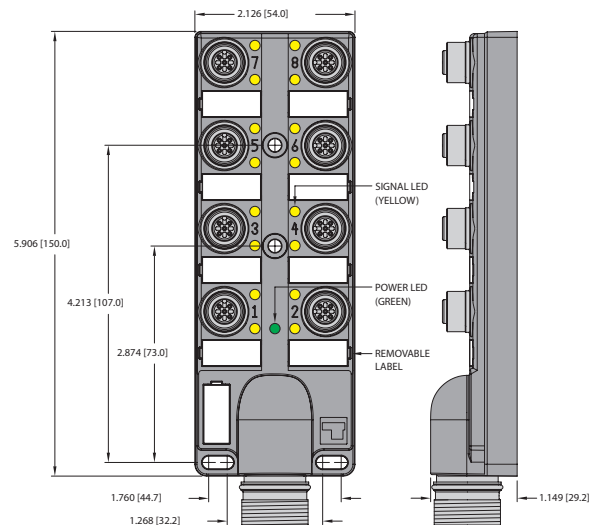
8-Port with Integral Home Run Cable



8-Port Quick Disconnect



8-Port with Side Connector



Pinout

5-Pin Eurofast	12-pin Multifast®
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

- Single Input/Output per Port
- Rugged Plastic Housing
- Available with or without LEDs
- Minifast® Quick Disconnect or Integral Home Run Cable with Minifast Connector
- Threaded M12 Connection



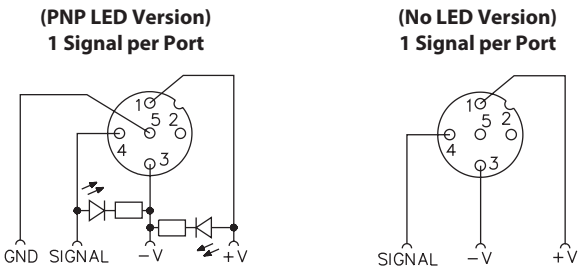
8-Port, 1 Signal per Port, 10-30 VDC

Application	Specifications	Pinout		No LEDs	PNP LED	NPN LED
8-port J-box 1 signal per port Minifast connector	2 A/signal 7 A total	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	
	12-pin Minifast connector 11 conductors. Mates with RKM 126-*M	+V	10 / RD	Port 4	4 / RD/BK	
		- V	11 / WH	Port 5	5 / GN/BK	
		Ground	9 / GN	Port 6	6 / OG/BK	
		Port 1	1 / OG	Port 7	7 / BU/BK	
		Port 2	2 / BU	Port 8	8 / BK/WH	
		Port 3	3 / WH/BK			
8-port J-box 1 signal per port Minifast connector	2 A/signal 7 A total	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	
	12-pin Minifast connector 11 conductors. Mates with RKM 126-*M	+V	10 / RD	Port 4	4 / RD/BK	
		- V	11 / WH	Port 5	5 / GN/BK	
		Ground	9 / GN	Port 6	6 / OG/BK	
		Port 1	1 / OG	Port 7	7 / BU/BK	
		Port 2	2 / BU	Port 8	8 / BK/WH	
		Port 3	3 / WH/BK			

* Cable length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

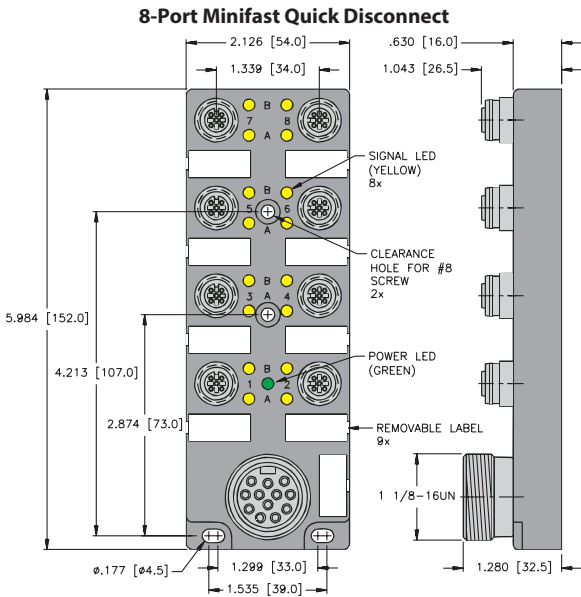
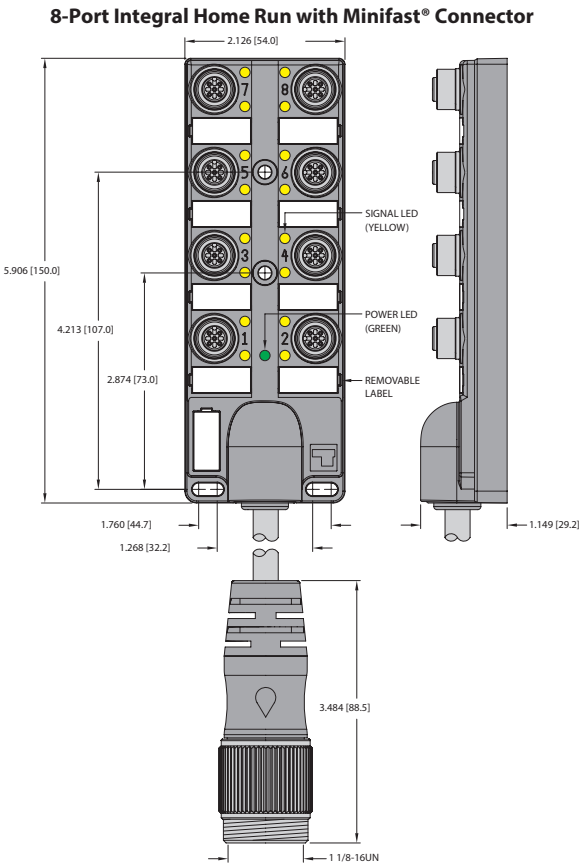


Multibox® Eurofast® Low Profile Junction Boxes, 8-Port

Specifications

Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP68, IP69K
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels), included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		

Dimensions



Pinout

5-Pin Eurofast	12-pin Minifast
Female	Male

Junction Box Connectivity Products

Multibox® Eurofast® Low Profile Junction Boxes 8-Port

- Dual Input/Output per Port
- Rugged Plastic Housing
- Available with or without LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Threaded M12 Connection



8-Port, 2 Signals per Port, 10-30 VDC

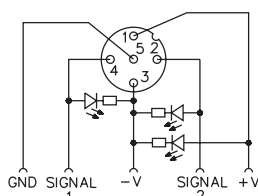
Application	Specifications	Pinout				No LEDs	PNP LED	NPN LED
8-port J-box 2 signals per port Integral cable	2 A/signal 9 A total Yellow PVC cable 3x18 AWG, 16x22 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8MB12Z-5-*	8MB12Z-5P3-*	8MB12Z-5N3-*
		+V	BN	Port 4, Sig 1	GY			
		- V	BU	Port 4, Sig 2	BN / GN			
		Ground	GN / YE	Port 5, Sig 1	PK			
		Port 1, Sig 1	WH	Port 5, Sig 2	WH / YE			
		Port 1, Sig 2	GY / PK	Port 6, Sig 1	RD			
		Port 2, Sig 1	GN	Port 6, Sig 2	YE / BN			
		Port 2, Sig 2	RD / BU	Port 7, Sig 1	BK			
		Port 3, Sig 1	YE	Port 7, Sig 2	WH / GY			
		Port 3, Sig 2	WH / GN	Port 8, Sig 1	VT			
				Port 8, Sig 2	GY / BN			
		<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8MB12Z-5-CS19	8MB12Z-5P3-CS19	8MB12Z-5N3-CS19
		+V	19 / BN	Port 4, Sig 1	3 / GY			
		- V	6 / BU	Port 4, Sig 2	14 / BN / GN			
		Ground	12 / GN / YE	Port 5, Sig 1	17 / PK			
		Port 1, Sig 1	15 / WH	Port 5, Sig 2	9 / WH / YE			
		Port 1, Sig 2	7 / GY / PK	Port 6, Sig 1	2 / RD			
		Port 2, Sig 1	5 / GN	Port 6, Sig 2	13 / YE / BN			
		Port 2, Sig 2	4 / RD / BU	Port 7, Sig 1	11 / BK			
		Port 3, Sig 1	16 / YE	Port 7, Sig 2	10 / WH / GY			
		Port 3, Sig 2	8 / WH / GN	Port 8, Sig 1	1 / VT			
				Port 8, Sig 2	18 / GY / BN			
		<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8MB12Z-5-CS19H	8MB12Z-5P3-CS19H	8MB12Z-5N3-CS19H
		+V	19 / BN	Port 4, Sig 1	3 / GY			
		- V	6 / BU	Port 4, Sig 2	14 / BN / GN			
		Ground	12 / GN / YE	Port 5, Sig 1	17 / PK			
		Port 1, Sig 1	15 / WH	Port 5, Sig 2	9 / WH / YE			
		Port 1, Sig 2	7 / GY / PK	Port 6, Sig 1	2 / RD			
		Port 2, Sig 1	5 / GN	Port 6, Sig 2	13 / YE / BN			
		Port 2, Sig 2	4 / RD / BU	Port 7, Sig 1	11 / BK			
		Port 3, Sig 1	16 / YE	Port 7, Sig 2	10 / WH / GY			
		Port 3, Sig 2	8 / WH / GN	Port 8, Sig 1	1 / VT			
				Port 8, Sig 2	18 / GY / BN			

We reserve the right to make technical alterations without prior notice.

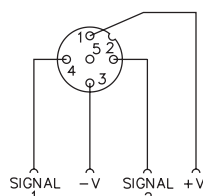
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
2 Signals per Port



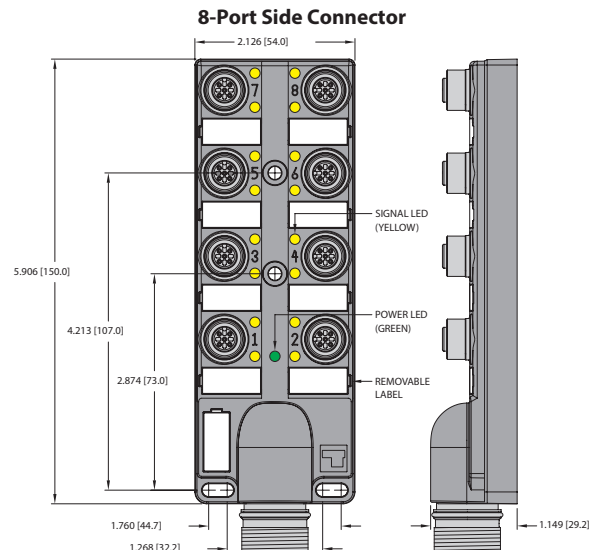
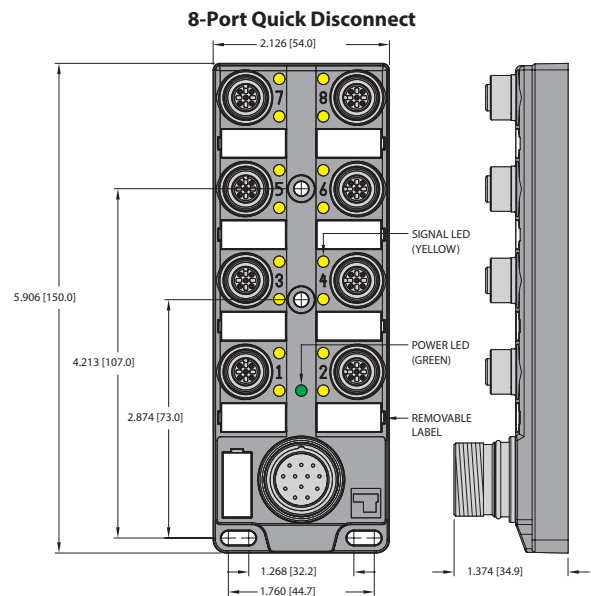
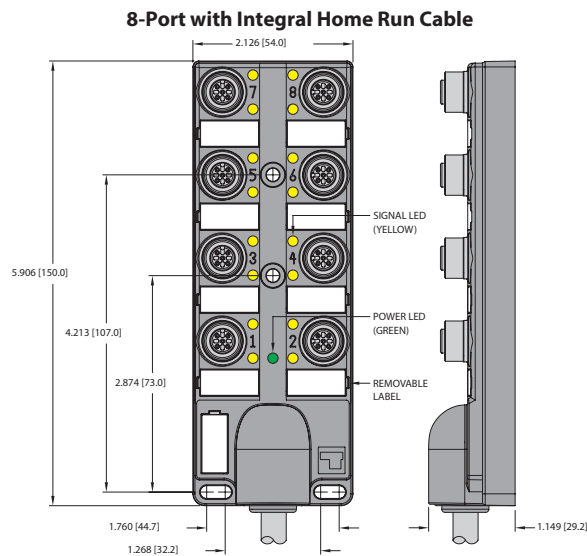
(No LED Version)
2 Signals per Port



Specifications

Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP68, IP69K
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (9 labels), included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2FKM 4.5		

Dimensions



Pinout

5-Pin Eurofast	19-Pin Multifast®
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast®, Junction Boxes, 4-Port Stainless Steel Connector Options

- 1 or 2 Signals per Port
- Rugged Plastic Housing with Flush Connectors
- Available with LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Available with Stainless Steel Threaded Connections



4-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout	Part Number																				
4-port J-box 1 signal per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 7x18 AWG foil shield and 20 AWG drain **with PUR cable, add /S90	<table> <tr> <th>Function</th><th>Color</th><th>Function</th><th>Color</th></tr> <tr> <td>+V</td><td>BN</td><td>Port 1</td><td>WH</td></tr> <tr> <td>-V</td><td>BU</td><td>Port 2</td><td>GN</td></tr> <tr> <td>Ground</td><td>GN / YE</td><td>Port 3</td><td>YE</td></tr> <tr> <td></td><td></td><td>Port 4</td><td>GY</td></tr> </table>	Function	Color	Function	Color	+V	BN	Port 1	WH	-V	BU	Port 2	GN	Ground	GN / YE	Port 3	YE			Port 4	GY	4MBV12-4P2-*
Function	Color	Function	Color																				
+V	BN	Port 1	WH																				
-V	BU	Port 2	GN																				
Ground	GN / YE	Port 3	YE																				
		Port 4	GY																				
4-port J-box 1 signal per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 7 conductors. Mates with CKCMV12-7-*	<table> <tr> <th>Function</th><th>Pin / Color</th><th>Function</th><th>Pin / Color</th></tr> <tr> <td>+V</td><td>11 / BN</td><td>Port 1</td><td>1 / WH</td></tr> <tr> <td>-V</td><td>10 / BU</td><td>Port 2</td><td>2 / GN</td></tr> <tr> <td>Ground</td><td>12 / GN / YE</td><td>Port 3</td><td>3 / YE</td></tr> <tr> <td></td><td></td><td>Port 4</td><td>4 / GY</td></tr> </table>	Function	Pin / Color	Function	Pin / Color	+V	11 / BN	Port 1	1 / WH	-V	10 / BU	Port 2	2 / GN	Ground	12 / GN / YE	Port 3	3 / YE			Port 4	4 / GY	4MBV12-4P2-CSV12
Function	Pin / Color	Function	Pin / Color																				
+V	11 / BN	Port 1	1 / WH																				
-V	10 / BU	Port 2	2 / GN																				
Ground	12 / GN / YE	Port 3	3 / YE																				
		Port 4	4 / GY																				

4-Port, 2 Signal per Port, 10-48 VDC

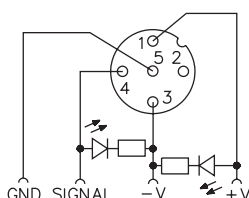
Application	Specifications	Pinout	Part Number																												
4-port J-box 2 signals per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 3x18 AWG, 8x22 AWG foil shield and 20 AWG drain **with PUR cable, add /S90	<table> <tr> <th>Function</th><th>Color</th><th>Function</th><th>Color</th></tr> <tr> <td>+V</td><td>BN</td><td>port 2, Sig 1</td><td>GN</td></tr> <tr> <td>-V</td><td>BU</td><td>port 2, Sig 2</td><td>RD / BU</td></tr> <tr> <td>Ground</td><td>GN/YE</td><td>port 3, Sig 1</td><td>YE</td></tr> <tr> <td>port 1, Sig 1</td><td>WH</td><td>port 3, Sig 2</td><td>WH / GN</td></tr> <tr> <td>port 1, Sig 2</td><td>GY / PK</td><td>port 4, Sig 1</td><td>GY</td></tr> <tr> <td></td><td></td><td>port 4, Sig 2</td><td>BN / GN</td></tr> </table>	Function	Color	Function	Color	+V	BN	port 2, Sig 1	GN	-V	BU	port 2, Sig 2	RD / BU	Ground	GN/YE	port 3, Sig 1	YE	port 1, Sig 1	WH	port 3, Sig 2	WH / GN	port 1, Sig 2	GY / PK	port 4, Sig 1	GY			port 4, Sig 2	BN / GN	4MBV12-5P3-*
Function	Color	Function	Color																												
+V	BN	port 2, Sig 1	GN																												
-V	BU	port 2, Sig 2	RD / BU																												
Ground	GN/YE	port 3, Sig 1	YE																												
port 1, Sig 1	WH	port 3, Sig 2	WH / GN																												
port 1, Sig 2	GY / PK	port 4, Sig 1	GY																												
		port 4, Sig 2	BN / GN																												
4-port J-box 2 signals per port Multifast connector	4 A/port, 8 A total 19-pin Multifast connector 11 conductors. Mates with CKMV 19-11-*	<table> <tr> <th>Function</th><th>Pin / Color</th><th>Function</th><th>Pin / Color</th></tr> <tr> <td>+V</td><td>19 / BN</td><td>Port 2, Sig 1</td><td>5 / GN</td></tr> <tr> <td>-V</td><td>6 / BU</td><td>Port 2, Sig 2</td><td>4 / RD / BU</td></tr> <tr> <td>Ground</td><td>12 / GN/YE</td><td>Port 3, Sig 1</td><td>16 / YE</td></tr> <tr> <td>Port 1, Sig 1</td><td>15 / WH</td><td>Port 3, Sig 2</td><td>8 / WH / GN</td></tr> <tr> <td>Port 1, Sig 2</td><td>7 / GY/PK</td><td>Port 4, Sig 1</td><td>3 / GY</td></tr> <tr> <td></td><td></td><td>Port 4, Sig 2</td><td>14 / BN / GN</td></tr> </table>	Function	Pin / Color	Function	Pin / Color	+V	19 / BN	Port 2, Sig 1	5 / GN	-V	6 / BU	Port 2, Sig 2	4 / RD / BU	Ground	12 / GN/YE	Port 3, Sig 1	16 / YE	Port 1, Sig 1	15 / WH	Port 3, Sig 2	8 / WH / GN	Port 1, Sig 2	7 / GY/PK	Port 4, Sig 1	3 / GY			Port 4, Sig 2	14 / BN / GN	4MBV12-5P3-CSV19
Function	Pin / Color	Function	Pin / Color																												
+V	19 / BN	Port 2, Sig 1	5 / GN																												
-V	6 / BU	Port 2, Sig 2	4 / RD / BU																												
Ground	12 / GN/YE	Port 3, Sig 1	16 / YE																												
Port 1, Sig 1	15 / WH	Port 3, Sig 2	8 / WH / GN																												
Port 1, Sig 2	7 / GY/PK	Port 4, Sig 1	3 / GY																												
		Port 4, Sig 2	14 / BN / GN																												

* Cable length in meters.

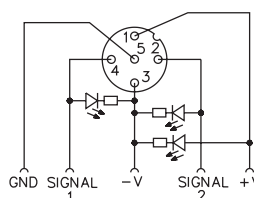
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(PNP LED Version)
2 Signals per Port

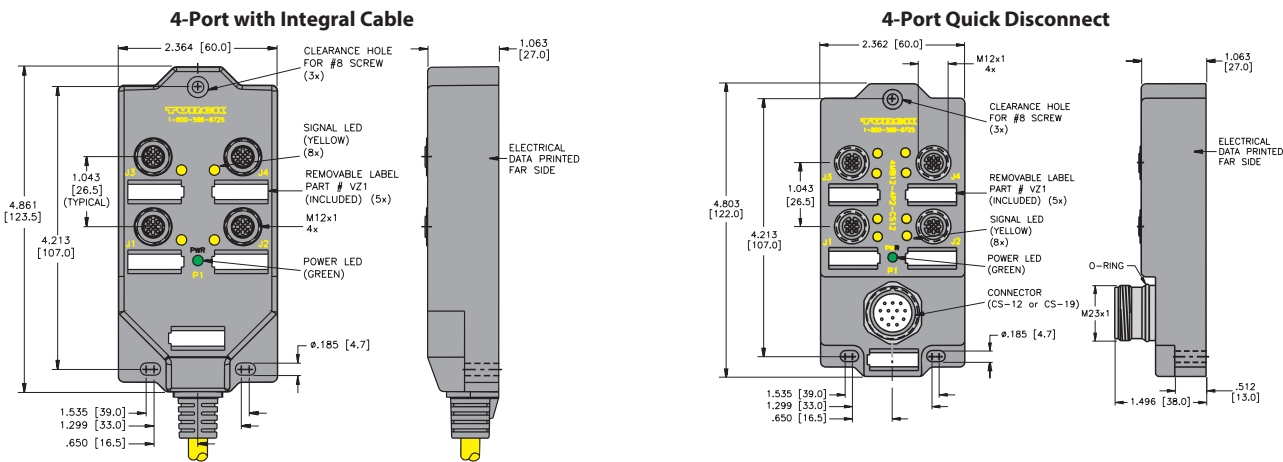


Multibox® Eurofast®, Junction Boxes, 4-Port Stainless Steel Connector Options

Specifications

Housing:	Nylon	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP67
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Thread Inserts:	Stainless steel	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions



We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Pinout

5-Pin Eurofast	12-Pin Multifast®	19-Pin Multifast
Female	Male	Male

Junction Box Connectivity Products

Multibox® Eurofast® 8-Port Junction Boxes, Stainless Steel Connector Options

- 1 or 2 Signals per Port
- Rugged Plastic Housing with Flush Connectors
- Available with LEDs
- M23 Quick Disconnect or Integral Home Run Cable
- Available with Stainless Steel Threaded Connections



8-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Part Number
8-port J-box 1 signal per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 11x18 AWG, foil shield and 20 AWG drain **with PUR cable, add /S90	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8MBV12-4P2-*
		+V	BN	Port 4	GY	
		-V	BU	Port 5	PK	
		Ground	GN / YE	Port 6	RD	
		Port 1	WH	Port 7	BK	
		Port 2	GN	Port 8	VT	
		Port 3	YE			
8-port J-box 1 signal per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 11 conductors. Mates with CKCMV 12-11-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	8MBV12-4P2-CSV12
		+V	11 / BN	Port 4	4 / GY	
		-V	10 / BU	Port 5	5 / PK	
		Ground	12 / GN / YE	Port 6	6 / RD	
		Port 1	1 / WH	Port 7	7 / BK	
		Port 2	2 / GN	Port 8	8 / VT	
		Port 3	3 / YE			

8-Port, 2 Signal per Port, 10-48 VDC

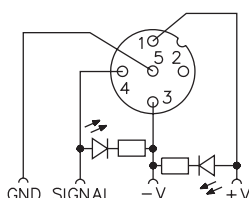
Application	Specifications	Pinout				Part Number
8-port J-box 2 signals per port Integral cable	4 A/port, 9 A total Yellow PVC cable** 3x18 AWG, 16x22 AWG, foil shield and 20 AWG drain **with PUR cable, add /S90	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8MBV12-5P3-*
		+V	BN	Port 4, Sig 1	GY	
		-V	BU	Port 4, Sig 2	BN / GN	
		Ground	GN / YE	Port 5, Sig 1	PK	
		Port 1, Sig 1	WH	Port 5, Sig 2	WH / YE	
		Port 1, Sig 2	GY / PK	Port 6, Sig 1	RD	
		Port 2, Sig 1	GN	Port 6, Sig 2	YE / BN	
		Port 2, Sig 2	RD / BU	Port 7, Sig 1	BN	
		Port 3, Sig 1	YE	Port 7, Sig 2	WH / GY	
		Port 3, Sig 2	WH / GN	Port 8, Sig 1	VT	
				Port 8, Sig 2	GY / BN	
8-port J-box 2 signals per port Multifast connector	4 A/port, 8 A total 19-pin Multifast connector 19 conductors. Mates with CKMV 19-19-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	8MBV12-5P3-CSV19
		+V	19 / BN	Port 4, Sig 1	3 / GY	
		-V	6 / BU	Port 4, Sig 2	14 / BN / GN	
		Ground	12 / GN/YE	Port 5, Sig 1	17 / PK	
		Port 1, Sig 1	15 / WH	Port 5, Sig 2	9 / WH / YE	
		Port 1, Sig 2	7 / GY/PK	Port 6, Sig 1	2 / RD	
		Port 2, Sig 1	5 / GN	Port 6, Sig 2	13 / YE / BN	
		Port 2, Sig 2	4 / RD/BU	Port 7, Sig 1	11 / BK	
		Port 3, Sig 1	16 / YE	Port 7, Sig 2	10 / WH/ GY	
		Port 3, Sig 2	8 / WH/GN	Port 8, Sig 1	1 / VT	
				Port 8, Sig 2	18 / GY / BN	

* Cable length in meters.

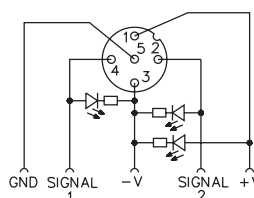
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



(PNP LED Version)
2 Signals per Port

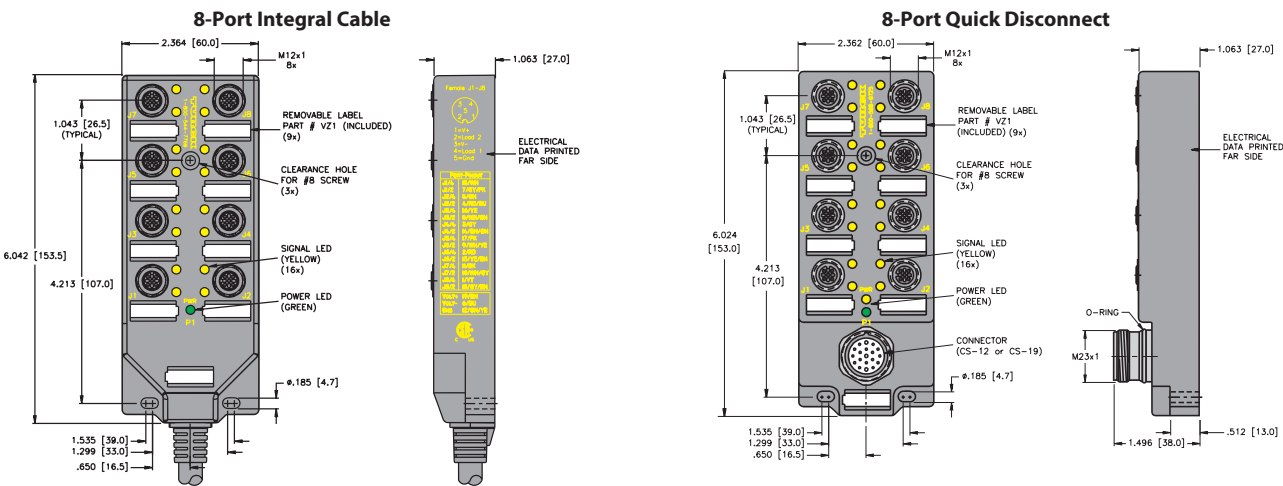


Multibox® Eurofast® 8-Port Junction Boxes, Stainless Steel Connector Options

Specifications

Housing:	Nylon	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP67
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels), included
Thread Inserts:	Stainless steel	Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Cable:	See table		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

Dimensions



We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Pinout

5-Pin Eurofast	12-Pin Multifast®	19-Pin Multifast
Female	Male	Male

Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, Back Exit Home Run

- 8-Port Plastic Housing
- 9 Amps Total
- Back Exit Home Run Cable or Leads
- Nickel Plated Brass or Stainless Steel Connectors



8-Port, 10-48 VDC, 2 Signals per Port, Back Exit Home Run Leads

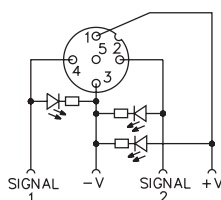
Application	Specifications	Pinout	Part Number - Nickel Plated	Part Number - Stainless Steel
8-port J-box 2 signals per port Back exit leads	4 A/port, 9 A total 5-pin Eurofast connector, 1 (green) power LED 2 (yellow) signal per port LEDs, 3x18 AWG, 16x22 AWG	<u>Function</u>	8MB12-5P3-*BL	8MBV12-5P3-*BL
		<u>Color</u>		
		+V		
		-V		
		Ground		
		Port 1, Sig 1		
		Port 1, Sig 2		
		Port 2, Sig 1		
		Port 2, Sig 2		
		Port 3, Sig 1		
		Port 3, Sig 2		
		Port 4, Sig 1		
		Port 4, Sig 2		
		Port 5, Sig 1		
		Port 5, Sig 2		
		Port 6, Sig 1		
		Port 6, Sig 2		
		Port 7, Sig 1		
		Port 7, Sig 2		
		Port 8, Sig 1		
		Port 8, Sig 2		

8-Port, 10-48 VDC, 2 Signals per Port, Back Exit Home Run Cable

Application	Specifications	Pinout	Part Number - Nickel Plated	Part Number - Stainless Steel
8-port J-box 2 signals per port Back exit cable	4 A/port, 9 A total 5-pin Eurofast connector, 1 (green) power LED 2 (yellow) signal per port LEDs, 3x18 AWG, 16x22 AWG, PVC Yellow Cable	<u>Function</u>	8MB12-5P3-*B	8MBV12-5P3-*B
		<u>Color</u>		
		+V		
		-V		
		Ground		
		Port 1, Sig 1		
		Port 1, Sig 2		
		Port 2, Sig 1		
		Port 2, Sig 2		
		Port 3, Sig 1		
		Port 3, Sig 2		
		Port 4, Sig 1		
		Port 4, Sig 2		
		Port 5, Sig 1		
		Port 5, Sig 2		
		Port 6, Sig 1		
		Port 6, Sig 2		
		Port 7, Sig 1		
		Port 7, Sig 2		
		Port 8, Sig 1		
		Port 8, Sig 2		

* Cable length in meters.

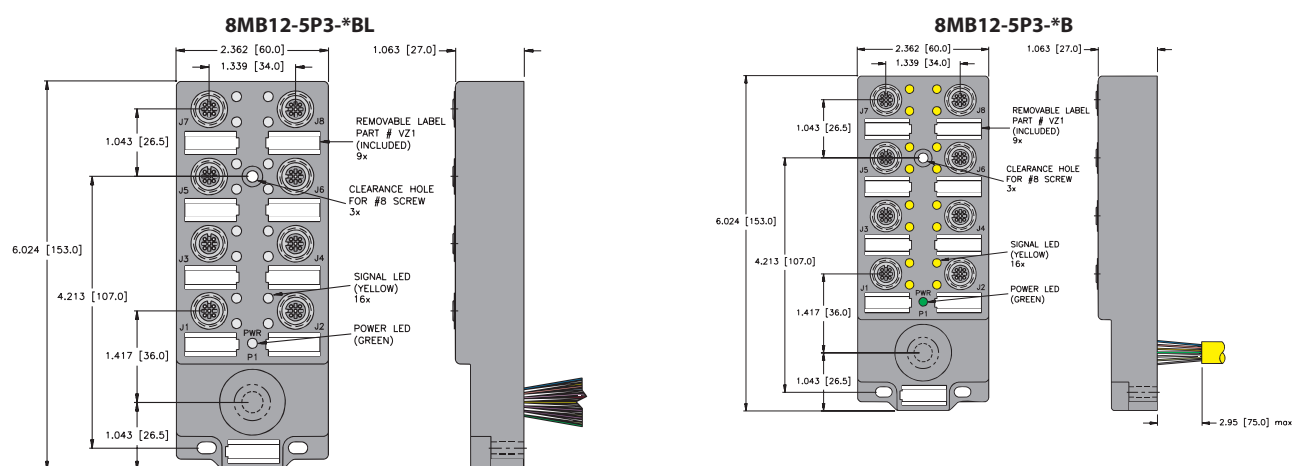
(PNP LED Version)
2 Signals per Port



Specifications

Housing:	Nylon	Temperature:	-30 °C to +80 °C (-22 °C to +176 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IP67
Contacts:	Gold plated brass	Accessories:	Includes (2) VZ 3 closure caps
Thread Inserts:	Nickel plated brass	Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5
Cable:	See table		
Recommended Gasket:	Gasket, 8MB12, Neoprene (A9446)		

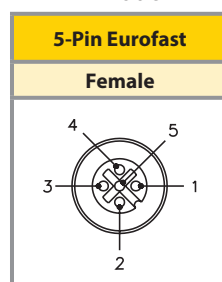
Dimensions



We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Pinout



Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, NAMUR, 1 Circuit per Port

- 4 Ports
- Rugged Plastic Housing with Flush Connectors
- M12 or M23 Quick Disconnect or Integral Home Run Cable
- For use with NAMUR Sensors



1 circuit per Port, common positive, 100 VDC

Application	Specifications	Pinout				Part Number
1 circuit per port, common positive, 100 VDC	4 A/port, 9 A total Blue PVC cable, PLTC 5x22 AWG	<u>Function</u> +V	<u>Color</u> GN	<u>Function</u> J1/Pin 2 J2/Pin 2 J3/Pin 2 J4/Pin 2	<u>Color</u> WH OG BK RD	VB 40N-*
4-port J-box 1 circuit per port Eurofast connector	4 A/port, 4 A total 5-pin Eurofast connector 5 conductors. Mates with RKCEN 5T-*	<u>Function</u> +V	<u>Pin / Color</u> 1 / GN	<u>Function</u> J1/Pin 2 J2/Pin 2 J3/Pin 2 J4/Pin 2	<u>Pin / Color</u> 2 / WH 3 / OG 4 / BK 5 / RD	VB 40N-H1151

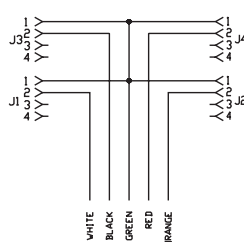
1 circuit per Port, isolated circuits, 100 VDC

Application	Specifications	Pinout				Part Number
4-port J-box 1 circuit per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 9x22 AWG	<u>Function</u> J1/Pin 1 J1/Pin 2 J2/Pin 1 J2/Pin 2	<u>Pin / Color</u> WH BK GN RD	<u>Function</u> J3/Pin 1 J3/Pin 2 J4/Pin 1 J4/Pin 2	<u>Pin / Color</u> OG BU YE VT	VB 4X1N-*
Brown not used						
4-port J-box 1 circuit per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 9 conductors. Mates with CKNM 12-9-*	<u>Function</u> J1/Pin 1 J1/Pin 2 J2/Pin 1 J2/Pin 2	<u>Pin / Color</u> 2 / WH 3 / BK 4 / GN 5 / RD	<u>Function</u> J3/Pin 1 J3/Pin 2 J4/Pin 1 J4/Pin 2	<u>Pin / Color</u> 6 / OG 7 / BU 8 / YE 9 / VT	VB 4X1N-CS12
Pin 1/BN not used						

We reserve the right to make technical alterations without prior notice.

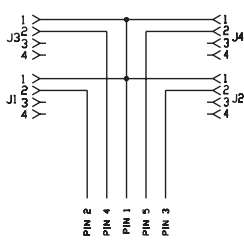
Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port



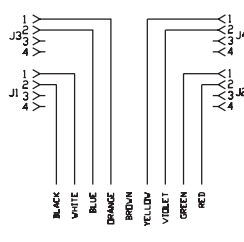
VB 40N-*

Common Positive
Eurofast Connector



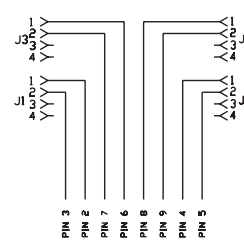
VB 40N-H1151

Isolated Circuit
Integral Cable



VB 4X1N-*

Isolated Circuit
Multifast Connector



VB 4X1N-CS12

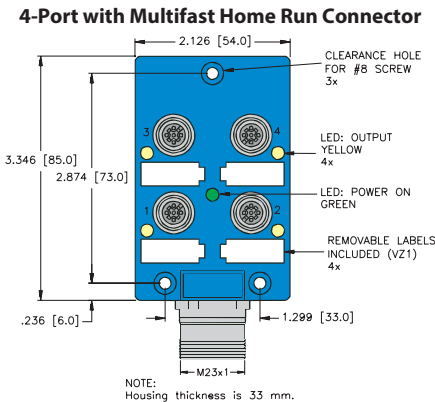
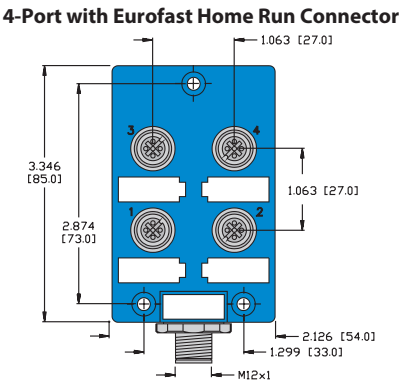
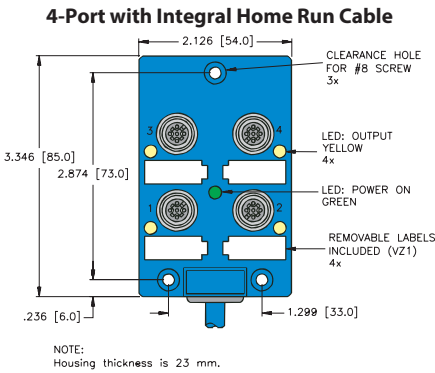
Multibox® Eurofast® Junction Boxes, NAMUR, 1 Circuit per Port

Specifications

Housing:	Nylon	Temperature:	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP67
Contacts:	Gold plated brass, machined from solid stock	Accessories:	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters
Cable:	See table		

Dimensions

We reserve the right to make technical alterations without prior notice.

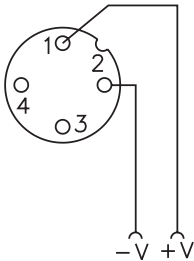


Notes
Removable labels included (Part number VZ 1).
Clearance hole for #8 screw (3 places).
Housings with integral cable: 23 mm thickness. Housings with quick disconnect: 33 mm thickness.

Pinout

5-Pin Eurofast	12-Pin Multifast
Female	Male

Female Pinout Diagram



Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, NAMUR, 2 Circuits per Port

- 4 Ports
- Rugged Plastic Housing with Flush Connectors
- M12 or M23 Quick Disconnect or Integral Home Run Cable
- For use with NAMUR Sensors



2 Circuits per Port, Common Positive, 100 VDC

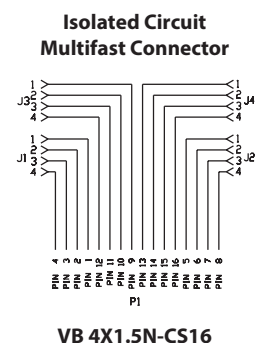
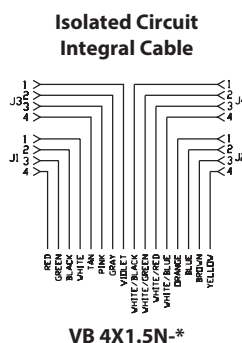
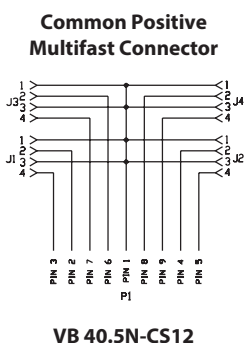
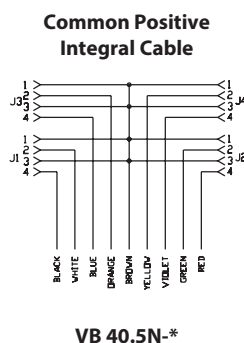
Application	Specifications	Pinout				Part Number
4-port J-box 2 circuits per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 9x22 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VB 40.5N-*
		V+	BN	J3/Pin 2	OG	
		J1/Pin 2	WH	J3/Pin 4	BU	
		J1/Pin 4	BK	J4/Pin 2	YE	
		J2/Pin 2	GN	J4/Pin 4	VT	
4-port J-box 2 circuits per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 9 conductors. Mates with CKNM 12-9-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	VB 40.5N-CS12
		V+	1 / BN	J3/Pin 2	6 / OG	
		J1/Pin 2	2 / WH	J3/Pin 4	7 / BU	
		J1/Pin 4	3 / BK	J4/Pin 2	8 / YE	
		J2/Pin 2	4 / GN	J4/Pin 4	9 / VT	
		J2/Pin 4	5 / RD			

2 Circuits per Port, Isolated Circuits, 100 VDC

Application	Specifications	Pinout				Part Number
4-port J-box 2 circuits per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 16x22 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VB 4X1.5N-*
		J1/Pin 1	WH	J3/Pin 1	VT	
		J1/Pin 2	BK	J3/Pin 2	GY	
		J1/Pin 3	GN	J3/Pin 3	PK	
		J1/Pin 4	RD	J3/Pin 4	TN	
		J2/Pin 1	OG	J4/Pin 1	WH / BK	
		J2/Pin 2	BU	J4/Pin 2	WH / GN	
		J2/Pin 3	BN	J4/Pin 3	WH / RD	
4-port J-box 2 circuits per port Multifast cable	4 A/port, 8 A total 16-pin Multifast connector 16 conductors. Mates with CKNWM 16-16-*	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VB 4X1.5N-CS16
		J1/Pin 1	1/WH	J3/Pin 1	9/VT	
		J1/Pin 2	2/BK	J3/Pin 2	10/GY	
		J1/Pin 3	3/GN	J3/Pin 3	11/PK	
		J1/Pin 4	4/RD	J3/Pin 4	12/TN	
		J2/Pin 1	5/OG	J4/Pin 1	13 / WH / BK	
		J2/Pin 2	6/BU	J4/Pin 2	14 / WH / GN	
		J2/Pin 3	7/BN	J4/Pin 3	15 / WH / RD	
		J2/Pin 4	8/YE	J4/Pin 4	16 / WH / BU	

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

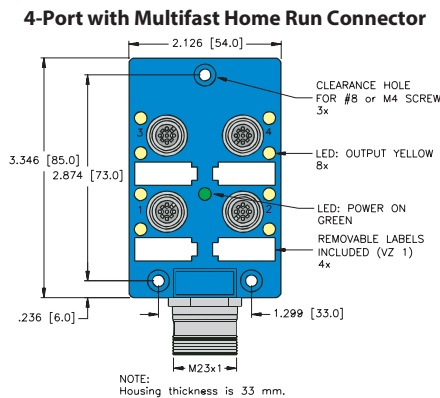
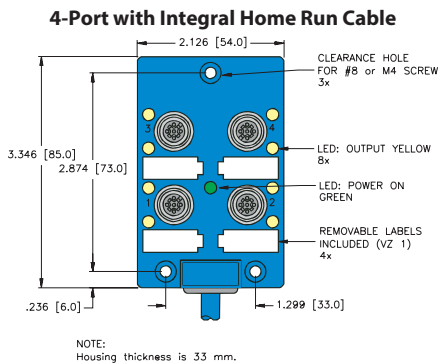


Multibox® Eurofast® Junction Boxes, NAMUR, 2 Circuits per Port

Specifications

Housing:	Nylon	Temperature:	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP67
Contacts:	Gold plated brass, machined from solid stock	Accessories:	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters
Cable:	See table		

Dimensions

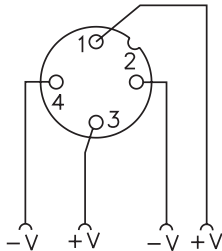


Notes
Removable labels included (Part number VZ 1).
Clearance hole for #8 screw (3 places).
Housings with integral cable: 23 mm thickness. Housings with quick disconnect: 33 mm thickness.

Pinout

12-Pin Multifast	16-Pin Multifast
Male	Male

Female Pinout Diagram



We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

- 4-Port, Plastic or Metal Housing
- Up to 16 A total
- Power Supply Isolation option
- Plug-in Terminal Cover with Spring Clamps or Screw Terminal



4-Port, 10-30 VDC, 2 Signals per Port, Isolated Power Supply Optional, Plastic Housing

Termination Style

Application	Specifications	Pinout		Spring Clamp	Screw Terminals
4-port J-box 2 signals per port Jumper option for isolation between odd and even ports Terminal chamber connection - spring clamp or screw terminals	2 A/signal, 10 A total or 8 A per supply 5-pin Eurofast connector 2(green) power LED 2(yellow) signal per port LEDs cable diameter 5-12 mm	<u>Function</u>	<u>Terminal Pin</u>	4MB12-5P4-K-FK	4MB12-5P4-K-SK
		Port 1/Signal 1	1		
		2/1	2		
		3/1	3		
		4/1	4		
		Port 1/Signal 2	9		
		2/2	10		
		3/2	11		
		4/2	12		
		+V	17		
		-V	18		
		+V	19		
		-V	20		
		Ground	PE		

4-Port, 10-30 VDC, 2 Signals per Port, Shielded Metal Housing

Termination Style

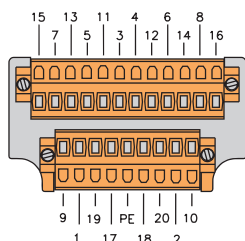
Application	Specifications	Pinout		Spring Clamp	Screw Terminals
4-port J-box 2 signals per port Termination chamber connection - spring clamp or screw terminals	2 A/signal, 10 A total 5-pin Eurofast connector 1(green) power LED cable diameter 9-14 mm	<u>Function</u>	<u>Terminal Pin</u>	----	4MB12-5P1-MS-SK
		Port 1/Signal 1	1		
		2/1	2		
		3/1	3		
		4/1	4		
		Port 1/Signal 2	9		
		2/2	10		
		3/2	11		
		4/2	12		
		+V	17		
		-V	18		
		+V	19		
		-V	20		
		Ground	PE		

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

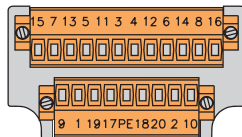
Spring Clamp

TERMINAL END VIEW

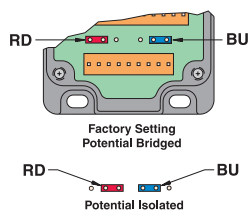


Screw Terminal

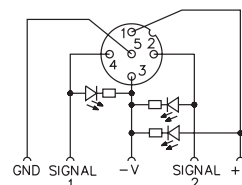
TERMINAL END VIEW



Connection Diagram



LED version 2 Signals per Port

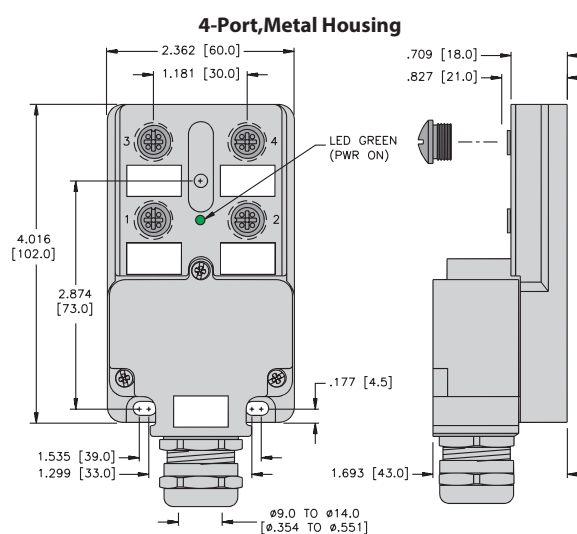
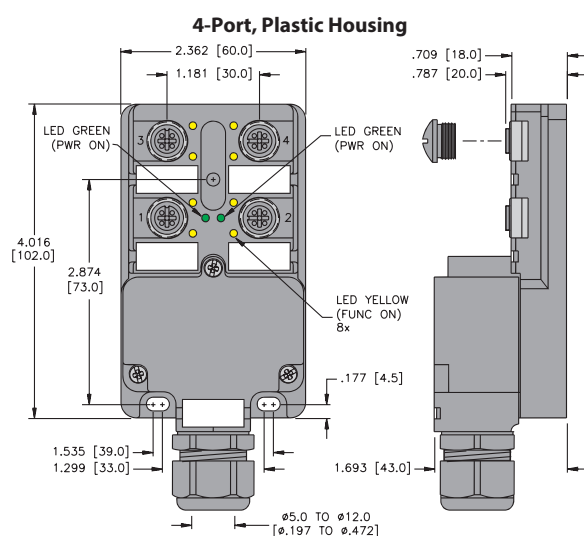


Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

Specifications

Housing:	PBT Black Plastic	Temperature:	-20 °C to +90 °C (-4 °F to +194 °F)
Connectors:	Eurofast: PBT/black	Protection:	IEC IP68
Contacts:	Gold plated brass	Accessories:	(2) TC-CC closure caps and labels included
Thread Inserts:	Nickel plated brass	Termination Method:	Field wireable, Spring Clamp or Screw Terminal. 16 AWG max.
Cable Gland & OD:	PG 13.5, accepts cable diameter 5 to 12 mm		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

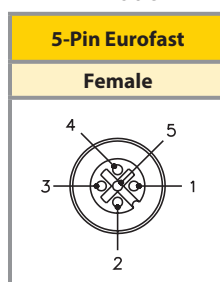
Dimensions



We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Pinout



Junction Box Connectivity Products

Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

- 8-Port Plastic or Metal Housing
- Up to 16 A total
- Power Supply Isolation option
- Plug-in Terminal Cover with Spring Clamps or Screw Terminal



8-Port, 10-30 VDC, 2 Signals per Port, Isolated Power Supply Optional , Plastic

Termination Style

Application	Specifications	Pinout				Spring Clamp	Screw Terminals
8-port J-box 2 signals per port, Jumper option for isolation between odd and even ports Terminal chamber connection - spring clamp or screw terminals	2 A/signal, 10 A total or 8 A per supply 5-pin Eurofast connector 2 (green) power LED 2 (yellow) signal per port LEDs cable diameter 6-12 mm	<u>Function</u>	<u>Terminal Pin</u>	<u>Function</u>	<u>Terminal Pin</u>	8MB12-5P4-K-FK	8MB12-5P4-K-SK
		Port 1/Signal 1	1	4/2	12		
		2/1	2	5/2	13		
		3/1	3	6/2	14		
		4/1	4	7/2	15		
		5/1	5	8/2	16		
		6/1	6	+V	17		
		7/1	7	-V	18		
		8/1	8	+V	19		
		Port 1/Signal 2	9	-V	20		
		2/2	10	Ground	PE		
		3/2	11				

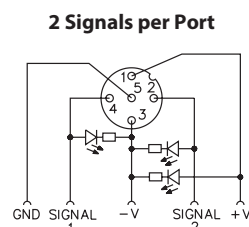
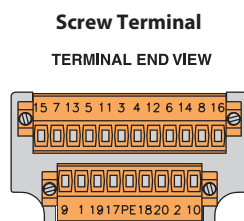
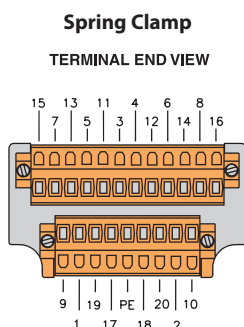
8-Port, 10-30 VDC, 2 Signals per Port, Shielded Metal

Termination Style

Application	Specifications	Pinout				Spring Clamp	Screw Terminals
8-port J-box 2 signals per port Termination chamber connection - spring clamp or screw terminal	2 A/signal, 10 A total 5-pin Eurofast connector 1 (green) power LED cable diameter 9-14 mm	<u>Function</u>	<u>Terminal Pin</u>	<u>Function</u>	<u>Terminal Pin</u>	8MB12-5P1-MS-FK	8MB12-5P1-MS-SK
		Port 1/Signal 1	1	4/2	12		
		2/1	2	5/2	13		
		3/1	3	6/2	14		
		4/1	4	7/2	15		
		5/1	5	8/2	16		
		6/1	6	+V	17		
		7/1	7	-V	18		
		8/1	8	+V	19		
		Port 1/Signal 2	9	-V	20		
		2/2	10	Ground	PE		
		3/2	11				

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

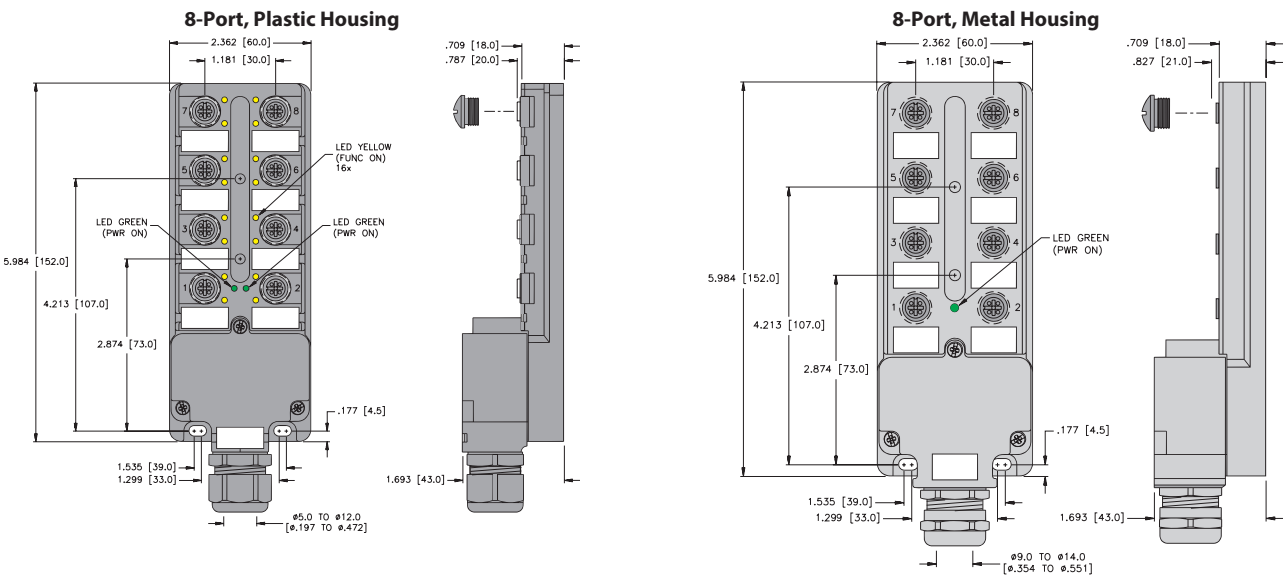


Multibox® Eurofast® Terminal Chamber, 2 Signals per Port

Specifications

Housing:	Die Cast Zinc, Nickel plated	Temperature:	-20 °C to +90 °C (-4 °F to +194 °F)
Connectors:	Eurofast: PBT/black	Protection:	IEC IP68
Contacts:	Gold plated brass	Accessories:	Includes (2) TC-CC closure caps and labels
Thread Inserts:	Nickel plated brass	Termination Method:	Field wireable, spring clamps or screw terminals. 16 AWG max.
Cable Gland & OD:	PG 13.5, accepts cable diameter 10-14 mm		
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5		

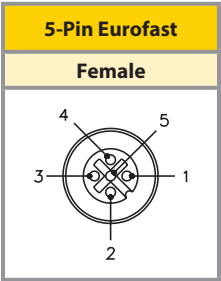
Dimensions



We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Pinout



Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, 4-Port, Metal

- Single Input/Output per Port
- Metal Housing with Side Connectors
- For DC Sensors and Actuators
- M23 Quick Disconnect, Minifast® Connector, or Integral Home Run Cable
- Available with or without LEDs

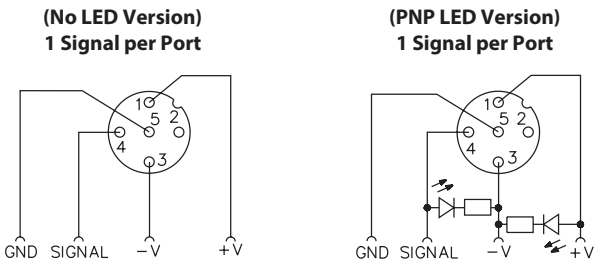


4-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Spring Clamp	Screw Terminals
4-port J-box 1 signal per port Metal box Integral cable	4 A/port, 10 A total Yellow PVC cable 7x18 AWG foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VBM 40-*	VBM 40-P7X5-*
		+V	BN	Port 1	WH		
		-V	BU	Port 2	GN		
		Ground	GN / YE	Port 3	YE		
4-port J-box 1 signal per port Metal box Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 7 conductors. Mates with CKM 12-7-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	VBM 40-CS12	VBM 40-P7X5-CS12
		+V	1 / BN	Port 1	4 / WH		
		-V	3 / BU	Port 2	6 / GN		
		Ground	12 / GN / YE	Port 3	7 / YE		
4-port J-box 1 signal per port, Metal box Minifast connector	4 A/port, 7 A total 12-pin Minifast connector 7 conductors. Mates with RKM 126-*M CSA Certified	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	VBM 40-RSF120	VBM 40-P7X5-RSF120
		+V	10 / RD	Port 3	3 / WH/BK		
		-V	11 / WH	Port 4	4 / RD/BK		
		Ground	12 / BK				
		Port 1	1 / OG				
		Port 2	2 / BU				

We reserve the right to make technical alterations without prior notice.

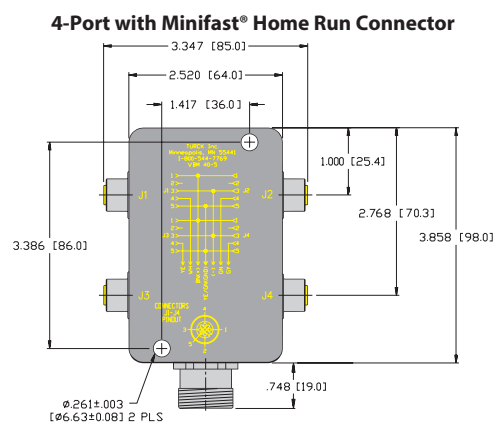
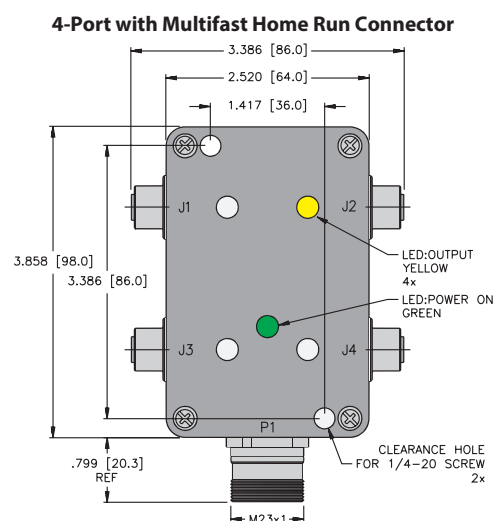
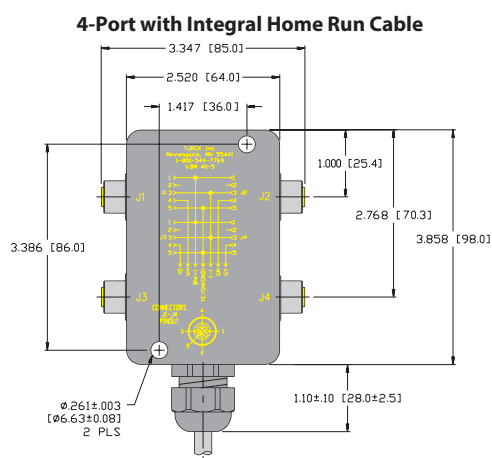
Functional Wiring Diagrams



Specifications

Housing:	Die-cast aluminum alloy	Temperature:	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP67
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters Other lengths available by request. Consult factory
Cable:	See table		

Dimensions



Notes

1. For mating CKM cordsets. See Multifast pages.
2. For mating RKM cordsets. See Minifast pages.

Pinout

5-Pin Eurofast	12-Pin Multifast	12-pin Minifast
Female	Male	Male

Junction Box Connectivity Products

Multibox® Eurofast® Junction Boxes, 8-Port, Metal

- Single Input/Output per Port
- Metal Housing with Side Connectors
- For DC Sensors and Actuators
- M23 Quick Disconnect, Minifast Connector, or Integral Home Run Cable
- Available with or without LEDs

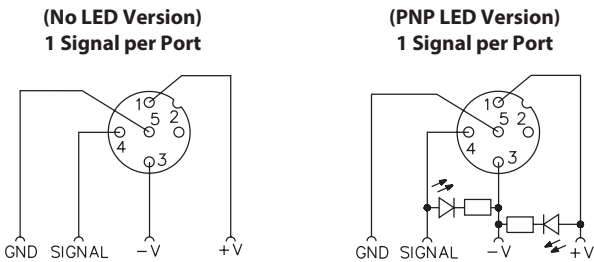


8-Port, 1 Signal per Port, 10-48 VDC

Application	Specifications	Pinout				Spring Clamp	Screw Terminals
8-port J-box 1 signal per port Metal box Integral cable	4 A/port, 10 A total Yellow PVC cable 11x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VBM 80-*	VBM 80-P7X9-*
		+V	BN	Port 4	GY		
		-V	BU	Port 5	PK		
		Ground	GN / YE	Port 6	RD		
		Port 1	WH	Port 7	BK		
		Port 2	GN	Port 8	VT		
		Port 3	YE				
8-port J-box 1 signal per port Metal box Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector 9 conductors. Mates with CKM 12-11-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	VBM 80-CS12	VBM 80-P7X9-CS12
		+V	1 / BN	Port 4	7 / GY		
		-V	3 / BU	Port 5	8 / PK		
		Ground	12 / GN/YE	Port 6	9 / RD		
		Port 1	4 / WH	Port 7	10 / BK		
		Port 2	5 / GN	Port 8	11 / VT		
		Port 3	6 / YE				
8-port J-box 1 signal per port Metal box Minifast connector	4 A/port, 7 A total 12-pin Minifast connector 9 conductors. Mates with RKM 126-* CSA Certified	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	VBM 80-RSF120	VBM 80-P7X9-RSF120
		+V	10 / RD	Port 3	3 / WH/BK		
		-V	11 / WH	Port 4	4 / RD/BK		
		Ground	12 / BK	Port 5	5 / GN/BK		
		Port 1	1 / OG	Port 6	6 / OG/BK		
		Port 2	2 / BU	Port 7	7 / BU/BK		
				Port 8	8 / BK/WH		

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



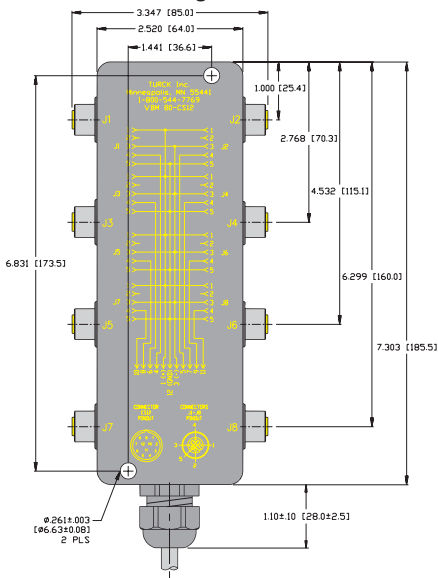
Multibox® Eurofast® Junction Boxes, 8-Port, Metal

Specifications

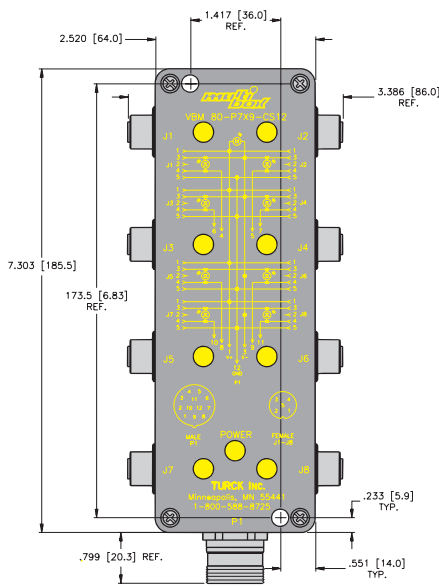
Housing:	Die-cast aluminum alloy	Temperature:	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Eurofast: Nylon or TPU	Protection:	IEC IP67
Contacts:	Gold plated brass	Accessories:	(2) VZ 3 closure caps included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length for junction boxes and Multifast® series quick disconnect cordsets is nominal 5 meters Other lengths available by request. Consult factory
Cable:	See table		

Dimensions

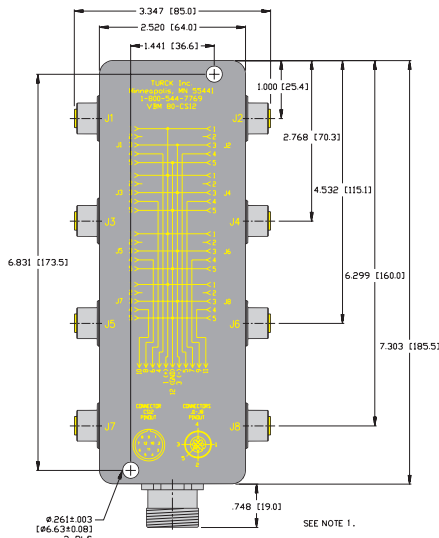
8-Port with Integral Home Run Cable



8-Port with Multifast Home Run Connector



8-Port with Minifast® Home Run Connector



- Notes**
- 1. For mating CKM cordsets. See Multifast pages.
 - 2. For mating RKM cordsets. See Minifast pages.

Pinout

5-Pin Eurofast	12-Pin Multifast	12-pin Minifast
Female	Male	Male

Junction Box Connectivity Products

Multibox® Eurofast® Junction Box, 16-Port

- Single Input/ Output per Port
- Rugged Plastic Housing with Flush Connectors
- Quick Disconnect
- Available with LEDs



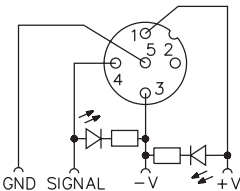
16-Port, 1-Signal per Port, 10-48 VDC

Application	Specifications	Pinout				PNP LED
16-port J-box 1 signal per port Multifast® connector	4 A/port, 8 A total 12-pin Multifast connector. Mates with CKM 19-19-* CSA Certified	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	16MB12-4P2-CS19
		+V	19 / BN	Port 7	3 / GY	
		-V	6 / BU	Port 8	14 / BN / GN	
		Ground	12 / GN / YE	Port 9	17 / PK	
		Port 1	15 / WH	Port 10	9 / WH / YE	
		Port 2	7 / GY / PK	Port 11	2 / RD	
		Port 3	5 / GN	Port 12	13 / YE / BN	
		Port 4	4 / RD / BU	Port 13	11 / BK	
		Port 5	16 / YE	Port 14	10 / WH / GY	
		Port 6	8 / WH / GN	Port 15	1 / VT	
				Port 16	18 / GY / BN	

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal per Port

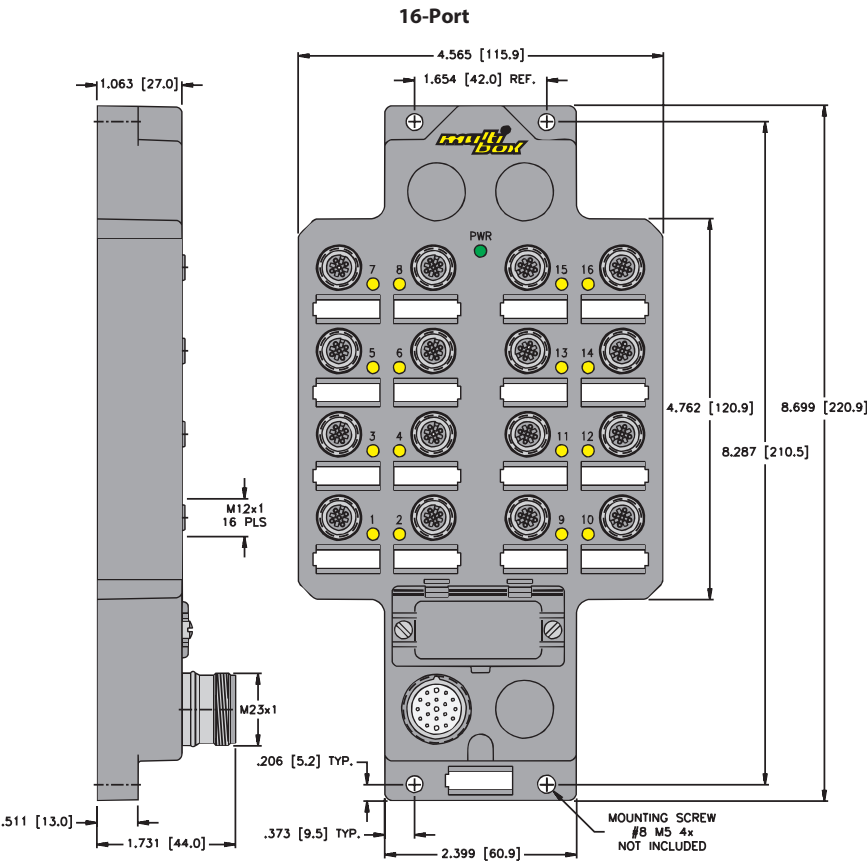


Multibox® Eurofast® Junction Box, 16-Port

Specifications

Housing:	Nylon	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nylon/BK (1,1A-8,8A), Nitrile/Yellow (P1)	Protection:	IEC IP67
Contacts:	Gold plated brass	Accessories:	Includes (2) VZ 3 closure caps and a VZ 1 label kit (16 labels) included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters. Other lengths available upon request - Consult factory

Dimensions



Pinout

5-Pin Eurofast	19-pin Multifast®
Female	Male

We reserve the right to make technical alterations without prior notice.

multibox®, eurofast®

Junction Box Connectivity Products

Multibox® Eurofast® AC/DC Junction Box, 4-Port

- 4 Ports for connecting DC sensors
- Integrated DC power supply
- Solid-State AC output from DC sensors
- LED shows power supply function
- Home Run wiring matches standard AC style junction boxes for easy installation

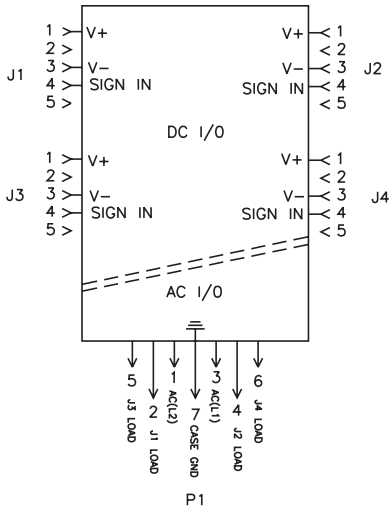


4-Port, 85-132 VAC

Application	Specifications	Pinout		Part Number
4-port J-box for DC sensors in AC applications	85 - 132 VAC input 24 VDC output to sensors 100 mA output per port 7-pin Minifast® connector. Mates with RKM 76-*M	Function	Pin/Color	VBM-AC/DC/AC-RSM 70/ADAPTER BOX
		L1 AC Common	3 / WH	
		L2 AC	1 / WH / BK	
		Ground	7 / GN	
		J1 Load (L2)	2 / BK	
		J2 Load (L2)	4 / RD	
		J3 Load (L2)	5 / OG	
		J4 Load (L2)	6 / BU	

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 4-Port, 3-Pin

- Snap Lock or Threaded Connectors
- Available with or without LEDs
- M12 Quick Disconnect or Integral Home Run Cable



4-Port, Snap Lock, 10-30 VDC

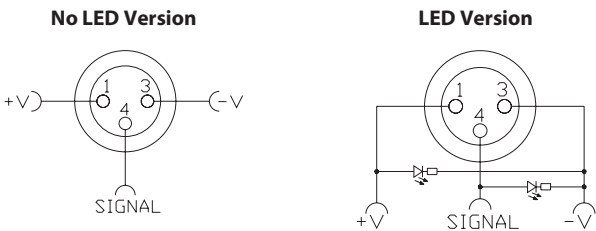
Application	Specifications	Pinout		No LEDs	PNP LED	NPN LED
4 port J-box, 1 signal per port, snap lock port connectors, integral homerun cable	2 A/ signal, 6 A total Black PVC cable 6x24 AWG	Function	Color	TB-4M8Z-3-*	TB-4M8Z-3P2-*	TB-4M8Z-3N2-*
		+V	BN			
		- V	BU			
		Port 1	WH			
		Port 2	GN			
		Port 3	YE			
		Port 4	GY			
4 port J-box, 1 signal per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/ signal, 2 A total 8-pin Eurofast connector 6 conductors. Mates with RKC 8.6T-*	Function	Pin	TB-4M8Z-3-FS8	TB-4M8Z-3P2-FS8	TB-4M8Z-3N2-FS8
		+V	5			
		- V	7			
		Port 1	1			
		Port 2	2			
		Port 3	3			
		Port 4	4			

4-Port, Threaded, 10-30 VDC

Application	Specifications	Pinout		No LEDs	PNP LED	NPN LED
4 port J-box, 1 signal per port, threaded port connectors, integral homerun cable	2 A/signal, 6 A total Black PVC cable 6x24 AWG	Function	Color	TB-4M8M-3-*	TB-4M8M-3P2-*	TB-4M8M-3N2-*
		+V	BN			
		- V	BU			
		Port 1	WH			
		Port 2	GN			
		Port 3	YE			
		Port 4	GY			
4 port J-box, 1 signal per port, threaded port connectors, Eurofast(R) homerun connector	2 A/ signal, 2 A total 8-pin Eurofast connector 6 conductors. Mates with RKC 8.6T-*	Function	Pin	TB-4M8M-3-FS8	TB-4M8M-3P2-FS8	TB-4M8M-3N2-FS8
		+V	5			
		- V	7			
		Port 1	1			
		Port 2	2			
		Port 3	3			
		Port 4	4			

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

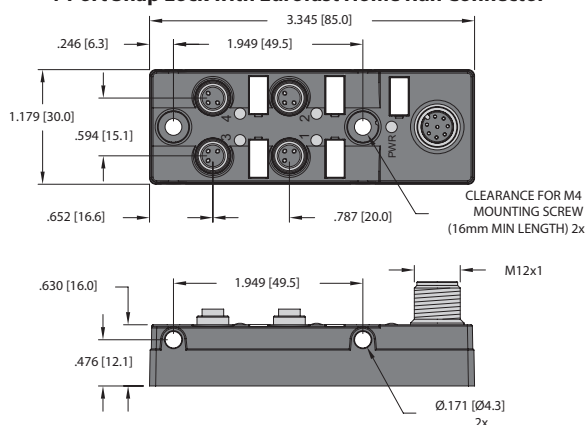


Specifications

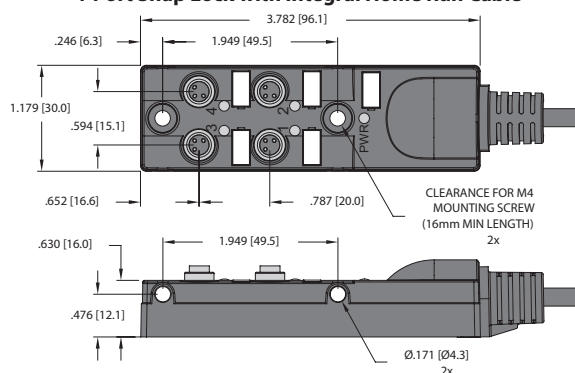
Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Nylon or TPU	Protection:	IEC IP67 (all) , IP68 (threaded only)
Contacts:	Gold plated brass	Accessories:	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 5 pieces KS 5/10 labels included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

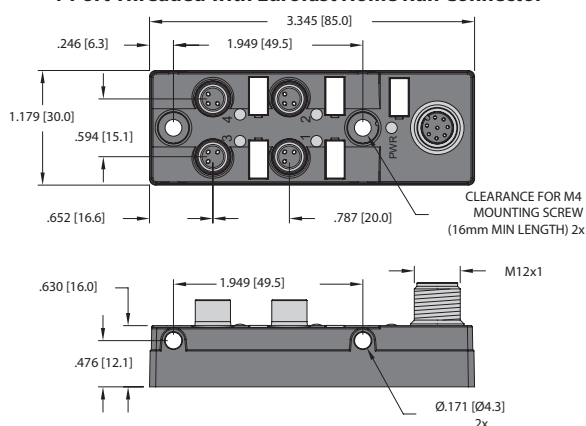
4-Port Snap Lock with Eurofast Home Run Connector



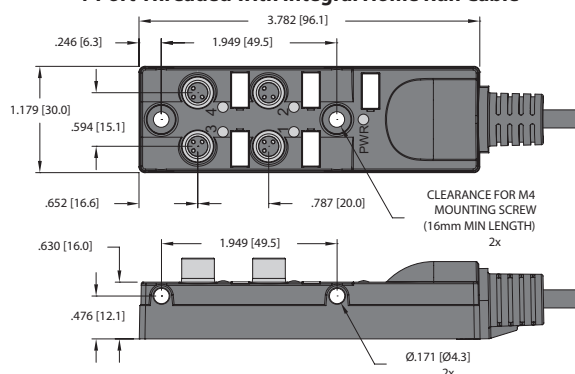
4-Port Snap Lock with Integral Home Run Cable



4-Port Threaded with Eurofast Home Run Connector



4-Port Threaded with Integral Home Run Cable



Pinout

3-pin Picofast	8-pin Eurofast
Female	Male

We reserve the right to make technical alterations without prior notice.

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Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 8-Port, 3-Pin

- Snap Lock or Threaded Connectors
- Available with or without LEDs
- M12 Quick Disconnect or Integral Home Run Cable



8-Port, Snap Lock, 10-30 VDC

Application	Specifications	Homerun Pinout				No LEDs	PNP LED	NPN LED
8 port J-box, 1 signal per port, snap lock port connectors, integral homerun cable	2 A/signal, 6 A total Black PVC cable 10x24 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	TB-8M8Z-3-*	TB-8M8Z-3P2-*	TB-8M8Z-3N2-*
		+V	BN	Port 4	GY			
		- V	BU	Port 5	PK			
		Port 1	WH	Port 6	RD			
		Port 2	GN	Port 7	BK			
		Port 3	YE	Port 8	VT			
8 port J-box, 1 signal per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/port, 2 A total for single power, mates with RKC 10T*/S3477 2 A/port, 4A total for dual power, mates with RKC 12T*/S3477	<u>Function</u>	<u>Pin</u>	<u>Function</u>	<u>Pin</u>	TB-8M8Z-3-FS12	TB-8M8Z-3P2-FS12	TB-8M8Z-3N2-FS12
		+V	1, 12	Port 4	8			
		- V	2, 11	Port 5	5			
		Port 1	3	Port 6	9			
		Port 2	4	Port 7	7			
		Port 3	6	Port 8	10			

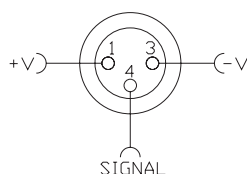
8-Port, Threaded, 10-30 VDC

Application	Specifications	Homerun Pinout				No LEDs	PNP LED	NPN LED
8 port J-box, 1 signal per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/port, 6 A total Black PVC cable 10x24 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	TB-8M8M-3-*	TB-8M8M-3P2-*	TB-8M8M-3N2-*
		+V	BN	Port 4	GY			
		- V	BU	Port 5	PK			
		Port 1	WH	Port 6	RD			
		Port 2	GN	Port 7	BK			
		Port 3	YE	Port 8	VT			
8 port J-box, 1 signal per port, threaded port connectors, Eurofast(R) homerun connector	2 A/port, 2 A total for single power, mates with RKC 10T*/S3477 2 A/port, 4A total for dual power, mates with RKC 12T*/S3477	<u>Function</u>	<u>Pin</u>	<u>Function</u>	<u>Pin</u>	TB-8M8M-3-FS12	TB-8M8M-3P2-FS12	TB-8M8M-3N2-FS12
		+V	1, 12	Port 4	8			
		- V	2, 11	Port 5	5			
		Port 1	3	Port 6	9			
		Port 2	4	Port 7	7			
		Port 3	6	Port 8	10			

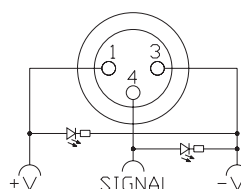
We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

No LED Version



LED Version

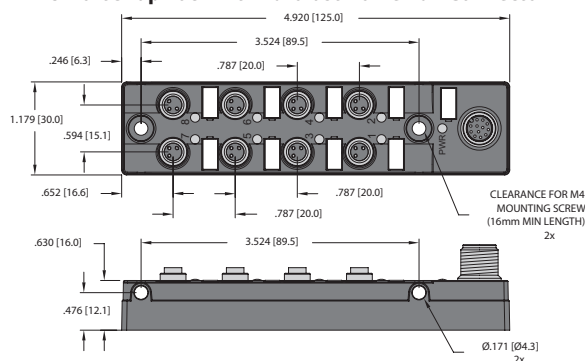


Specifications

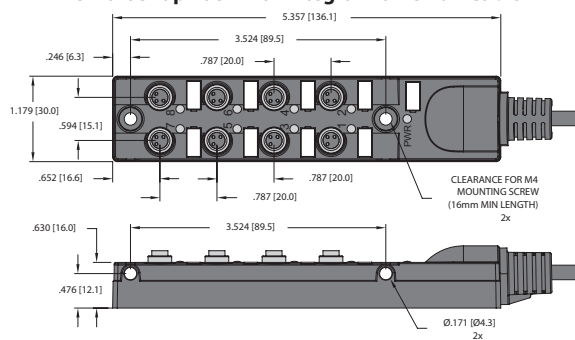
Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Nylon or TPU	Protection:	IEC IP67 (all) , IP68 (threaded only)
Contacts:	Gold plated brass	Accessories:	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 9 pieces KS 5/10 labels included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters Other lengths available by request - Consult factory
Cable:	See table		

Dimensions

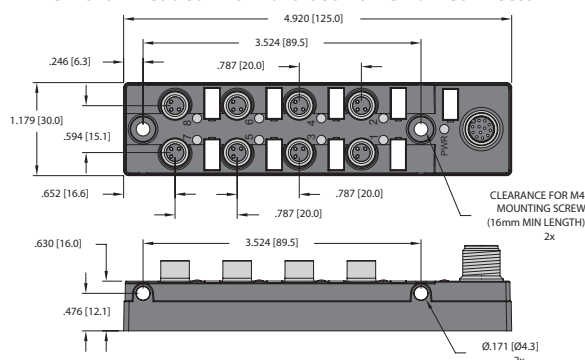
8-Port Snap Lock with Eurofast Home Run Connector



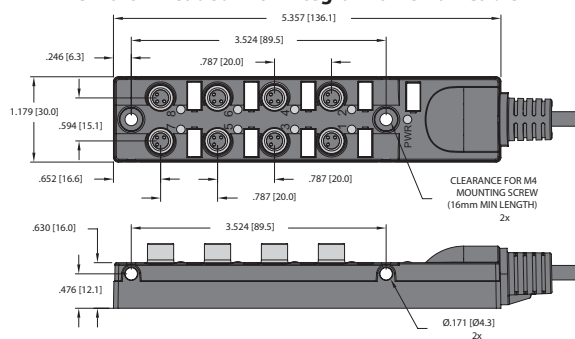
8-Port Snap Lock with Integral Home Run Cable



8-Port Threaded with Eurofast Home Run Connector



8-Port Threaded with Integral Home Run Cable



Pinout

3-pin Picofast	12-pin Eurofast™
Female	Male

Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 4-Port, 4-pin

- Dual Input/Output per Port
- Snap Lock or Threaded Connectors
- M12 Quick Disconnect or Integral Home Run Cable



4-Port, 4-pin, Snap Lock, 10-30 VDC

Application	Specifications	Pinout				No LEDs
4 port J-box, 2 signals per port, snap lock port connectors, integral homerun cable	2 A/signal, 6 A total black PVC cable 10x24 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	TB-4M8Z-4-*
		+V	BN	Port 3/2	GN	
4 port J-box, 2 signals per port, snap lock port connectors, Eurofast(R) homerun connector	2 A/signal, 2 A total for single power, mates with RKC 10T*/S3476 2 A/signal, 4A total for dual power, mates with RKC 12T*/S3476	- V	BU	Port 3/4	WH	TB-4M8Z-4-FS12
		Port 1/2	RD	Port 4/2	BK	
		Port 1/4	PK	Port 4/4	VT	
		Port 2/2	YE			
		Port 2/4	GY			
		<u>Function</u>	<u>Pin</u>	<u>Function</u>	<u>Pin</u>	
		+V	1, 12	Port 2/2	9	
		- V	2, 11	Port 2/4	4	
		Port 1/2	5	Port 3/2	7	
		Port 1/4	3	Port 3/4	6	
				Port 4/2	10	
				Port 4/4	8	

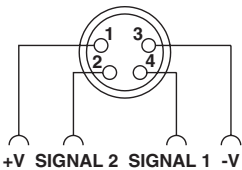
4-Port, 4-pin, Threaded, 10-30 VDC

Application	Specifications	Pinout				No LEDs
4 port J-box, 2 signals per port, threaded port connectors, integral homerun cable	2 A/signal, 6 A total Black PVC cable 10x24 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	TB-4M8M-4-*
		+V	BN	Port 2/4	GY	
4 port J-box, 2 signals per port, threaded port connectors, Eurofast(R) homerun connector	2 A/signal, 2 A total for single power, mates with RKC 10T*/S3476 2 A/signal, 4A total for dual power, mates with RKC 12T*/S3476	- V	BU	Port 3/2	GN	TB-4M8M-4-FS12
		Port 1/2	RD	Port 3/2	WH	
		Port 1/4	PK	Port 4/2	BK	
		Port 2/2	YE	Port 4/4	VT	
		<u>Function</u>	<u>Pin</u>	<u>Function</u>	<u>Pin</u>	
		+V	1, 12	Port 2/2	9	
		- V	2, 11	Port 2/4	4	
		Port 1/2	5	Port 3/2	7	
		Port 1/4	3	Port 3/4	6	
				Port 4/2	10	
				Port 4/4	8	

* Cable length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

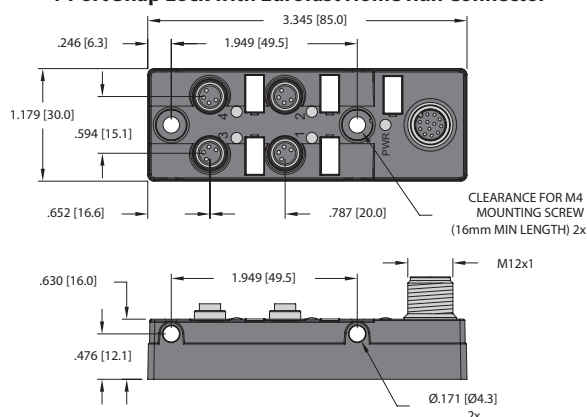


Specifications

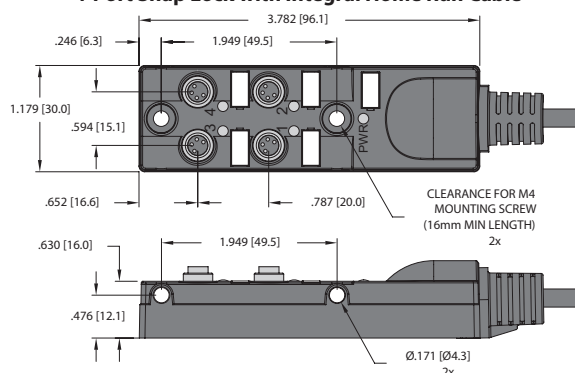
Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Nylon or TPU	Protection:	IEC IP67 (all) , IP68 (threaded only)
Contacts:	Gold plated brass	Accessories:	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 5 pieces KS 5/10 labels included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters Other lengths available by request - Consult factory
Cable:	See table	Recommended Splitter:	YP2-MFS 4/2MFK 3, for threaded version only

Dimensions

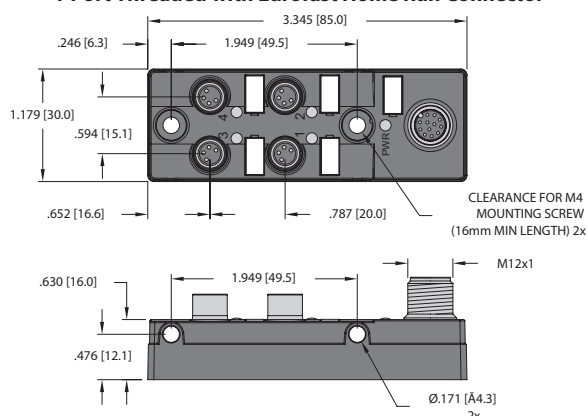
4-Port Snap Lock with Eurofast Home Run Connector



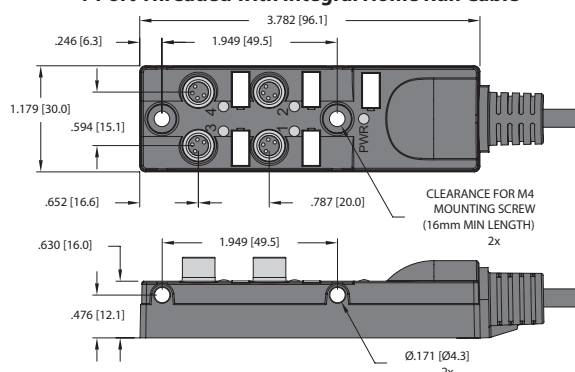
4-Port Snap Lock with Integral Home Run Cable



4-Port Threaded with Eurofast Home Run Connector



4-Port Threaded with Integral Home Run Cable



Pinout

4-pin Picofast	12-pin Eurofast
Female	Male

We reserve the right to make technical alterations without prior notice.

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Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 8-Port, 4-pin

- Dual Input/Output per Port
- Snap Lock or Threaded Connectors
- Integral Home Run Cable or M16 Cordset



4-Port, 4-pin, Snap Lock, 10-48 VDC

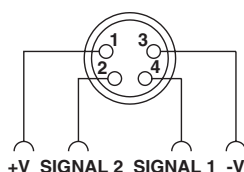
Application	Specifications	Homerun Pinout				No LEDs
8 port J-box, 2 signals per port, snap lock port connectors, integral homerun cable	2 A / signal, 6 A total Black PVC cable 19x22 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	TB-8M8Z-4-*
		- V	BU	Port 4/4	WH	
		+V	BN	Port 5/2	PK	
		Port 1/2	RD	Port 5/4	GY	
		Port 1/4	OG	Port 6/2	YE / BN	
		Port 2/2	VT	Port 6/4	YE	
		Port 2/4	RD / BI	Port 7/2	GY / PK	
		Port 3/2	GY / BN	Port 7/4	WH / GN	
		Port 3/4	TN	Port 8/2	WH / YE	
		Port 4/2	BK	Port 8/4	GN	
8 port J-box, 2 signals per port, snap lock port connectors, integral M16 homerun cordset	2 A / signal, 3 A total 19-pin M16 cordset Black PVC cable Mates with BKM 19-995-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	TB-8M8Z-4-*.BSM19
		+V	L/BN	Port 4/4	P/WH	
		- V	A/BU	Port 5/2	G/PK	
		Port 1/2	R/RD	Port 5/4	S/GY	
		Port 1/4	M/OG	Port 6/2	K/YE/BN	
		Port 2/2	O/VT	Port 6/4	T/YE	
		Port 2/4	C/RD/BU	Port 7/2	B/GY/PK	
		Port 3/2	N/GY/BN	Port 7/4	D/WH/GN	
		Port 3/4	U/TN	Port 8/2	H/WH/YE	
		Port 4/2	E/BK	Port 8/4	I/GN	

8-Port, 4-pin, Threaded, 10-48 VDC

Application	Specifications	Homerun Pinout				No LEDs
8 port J-box, 2 signals per port, threaded port connectors, integral homerun cable	2 A / signal, 6 A total Black PVC cable 19x22 AWG	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	TB-8M8M-4-*
		- V	BU	Port 4/4	WH	
		+V	BN	Port 5/2	PK	
		Port 1/2	RD	Port 5/4	GY	
		Port 1/4	OG	Port 6/2	YE / BN	
		Port 2/2	VT	Port 6/4	YE	
		Port 2/4	RD / BI	Port 7/2	GY / PK	
		Port 3/2	GY / BN	Port 7/4	WH / GN	
		Port 3/4	TN	Port 8/2	WH / YE	
		Port 4/2	BK	Port 8/4	GN	
8 port J-box, 2 signals per port, threaded port connectors, integral M16 homerun cordset	2 A / signal, 3 A total 19-pin M16 cordset Black PVC cable Mates with BKM 19-995-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	TB-8M8M-4-*.BSM19
		+V	L/BN	Port 4/4	P/WH	
		- V	A/BU	Port 5/2	G/PK	
		Port 1/2	R/RD	Port 5/4	S/GY	
		Port 1/4	M/OG	Port 6/2	K/YE/BN	
		Port 2/2	O/VT	Port 6/4	T/YE	
		Port 2/4	C/RD/BU	Port 7/2	B/GY/PK	
		Port 3/2	N/GY/BN	Port 7/4	D/WH/GN	
		Port 3/4	U/TN	Port 8/2	H/WH/YE	
		Port 4/2	E/BK	Port 8/4	I/GN	

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Functional Wiring Diagrams

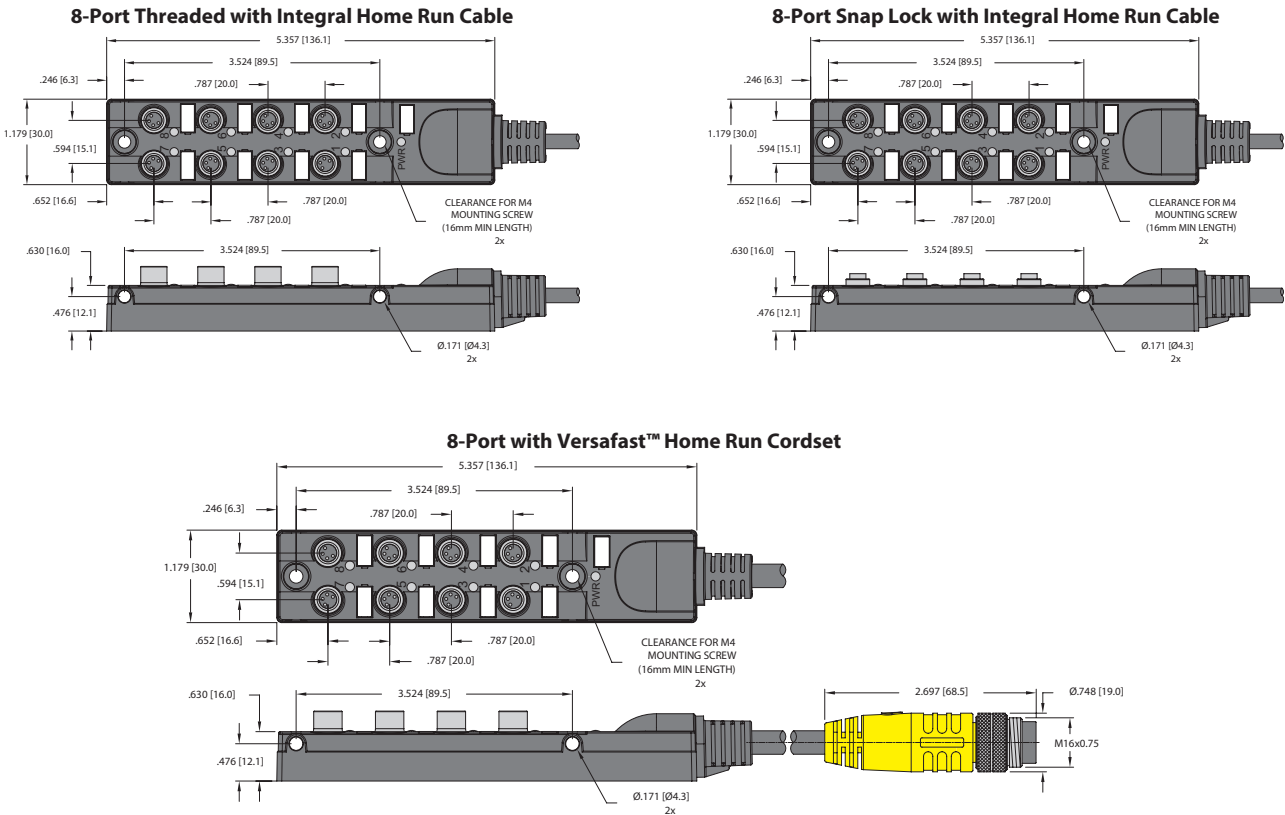


Multibox® Picofast® Junction Boxes, 8-Port, 4-pin

Specifications

Housing:	Nylon	Temperature:	-40 °C to +85 °C (-40 °F to +185 °F)
Connectors:	Nylon or TPU	Protection:	IEC IP67 (all) , IP68 (threaded only)
Contacts:	Gold plated brass	Accessories:	2 pieces PSGK-MC (snap lock) or PSGM-CC (threaded) and 5 pieces KS 5/10 labels included
Thread Inserts:	Nickel plated brass	Cable Length:	Standard length is nominal 5 meters Other lengths available by request - Consult factory
Cable:	See table	Recommended Splitter:	YP2-MFS 4/2MFK 3, for threaded version only

Dimensions



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Pinout

4-pin Picofast	19-pin Versafast
Female	Male

Junction Box Connectivity Products

Multibox® Picofast® Junction Boxes, 10-Port

- 10 Inputs/Outputs
- M16 Quick Disconnect or Integral Home Run Cable
- For Use with 3-pin Snap Lock Picofast Cordsets
- Available with or without LEDs



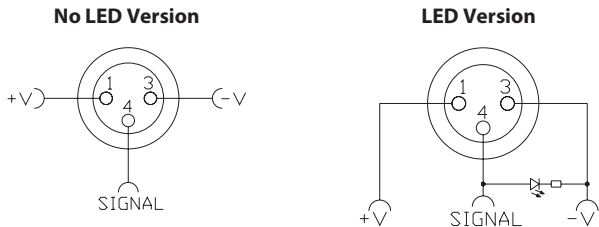
10-Port, J-box, Snap Lock, 48 VDC

Application	Specifications	Pinout				No LEDs	PNP LED
10-port J-box Standard wiring Integral cable	3 A/port, 3 A total Black PVC cable 12x24 AWG Foil shield and 26 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VB 1003-*	VB 1003-PX10-*
		+V	BN	Port 5	TN		
		-V	BU	Port 6	WH		
		Port 1	RD	Port 7	GN		
		Port 2	BK	Port 8	YE		
		Port 3	VT	Port 9	GY		
10-port J-box Standard wiring M16 connector	3 A/port, 3 A total 14 pin connector M16 threads. Mates with BKM 14-755-* or BKWM 14-755-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	VB 1003-BS14	VB 1003-PX10-BS14
		+V	M/BN	Port 5	N/TN		
		-V	U/BU	Port 6	R/WH		
		Port 1	P/RD	Port 7	G/GN		
		Port 2	E/BK	Port 8	S/YE		
		Port 3	O/VT	Port 9	J/GY		
		Port 4	C/OG	Port 10	T/PK		

* Length in meters.

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Functional Wiring Diagrams



Pinout

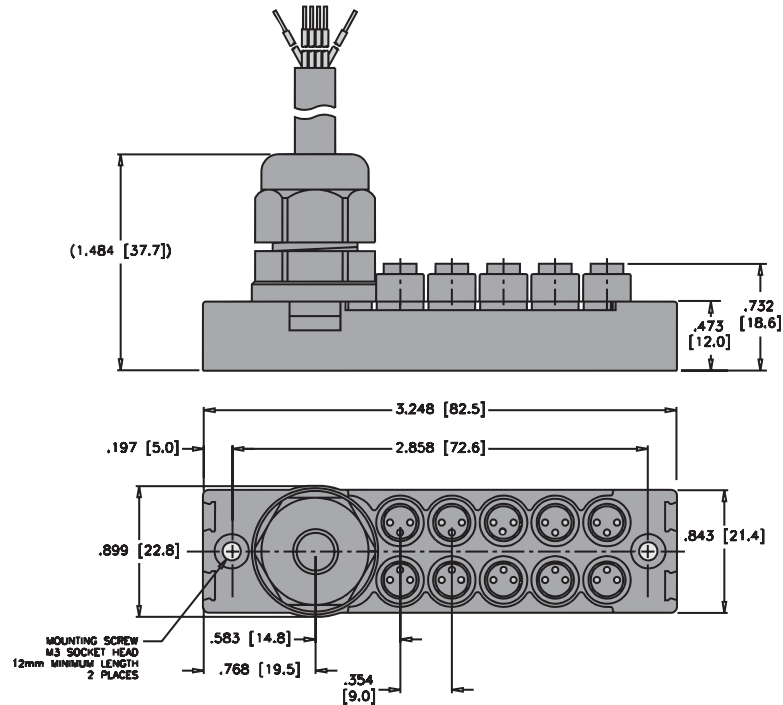
3-pin Picofast	14-pin Versafast™
Female	Male

Specifications

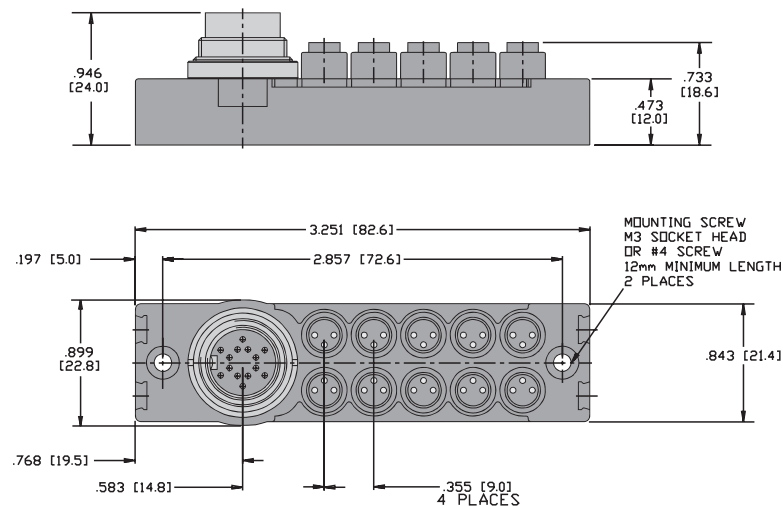
Housing:	Nylon	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	TPU or Nylon	Protection:	IEC IP67
Contacts:	Gold plated brass	Accessories:	Closure cap, PSG-CC (optional - 2 included)
		Cable Length:	Standard length for junction boxes and M16 cordsets is nominal 5 meters Other lengths available by request - Consult factory

Dimensions

10-Port with Integral Home Run Cable



10-Port with M16 Home Run Connector



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Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, 3-Pin

- 4, 6 and 8 Ports
- M23 Quick Disconnect, Minifast Connector or Integral Home Run Cable
- Simplifies Wiring Installations



4-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
4-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 6x18 AWG, foil shield and 20 AWG drain	<u>Function</u> Common (L1) Ground J1 Load (L2)	<u>Color</u> WH GN RD	<u>Function</u> J2 Load (L2) J3 Load (L2) J4 Load (L2)	<u>Color</u> OG BK BU	4 RKF 30-*M
4-port J-box Standard wiring Multifast® connector	4 A/port, 7 A total 12-pin Multifast connector, 6 conductors. Mates with CKRM 12-6-*	<u>Function</u> Common (L1) Ground J1 Load (L2)	<u>Pin / Color</u> 5 / WH 7 / GN 6 / RD	<u>Function</u> J2 Load (L2) J3 Load (L2) J4 Load (L2)	<u>Pin / Color</u> 1 / OG 4 / BK 2 / BU	4 RKF 30-CS12
4-port J-box Standard wiring Minifast connector	4 A/port, 6 A total 6-pin Minifast connector, 6 conductors. Mates with RKM 61-*M	<u>Function</u> Common (L1) Ground J1 Load (L2)	<u>Pin / Color</u> 1 / WH 3 / GN 2 / RD	<u>Function</u> J2 Load (L2) J3 Load (L2) J4 Load (L2)	<u>Pin / Color</u> 4 / OG 5 / BK 6 / BU	4 RKF 30-B1161

6-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
6-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 8x18 AWG, foil shield and 20 AWG drain	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2)	<u>Color</u> WH GN RD OG	<u>Function</u> J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	<u>Color</u> BK BU YE BN	6 RKF 30-*M
6-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 8 conductors. Mates with CKRM 12-8-*	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2)	<u>Pin / Color</u> 5 / WH 7 / GN 6 / RD 1 / OG	<u>Function</u> J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	<u>Pin / Color</u> 4 / BK 2 / BU 3 / YE 8 / BN	6 RKF 30-CS12

8-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
8-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 10x18 AWG, foil shield and 20 AWG drain	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	<u>Color</u> WH GN RD VT BK	<u>Function</u> J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	<u>Color</u> BU GY YE OG BN	8 RKF 30-*M
8-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 10 conductors. Mates with CKRM 12-10-*	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	<u>Pin / Color</u> 5 / WH 7 / GN 6 / RD 1 / VT 4 / BK	<u>Function</u> J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	<u>Pin / Color</u> 2 / BU 3 / GY 8 / YE 9 / OG 10 / BN	8 RKF 30-CS12

* Length in meters.

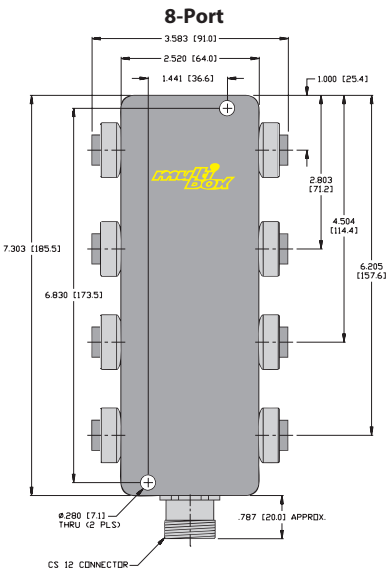
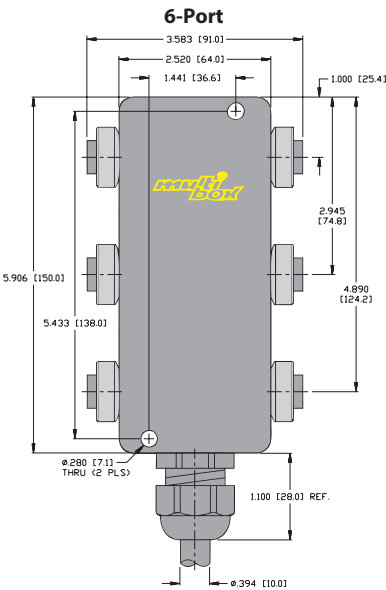
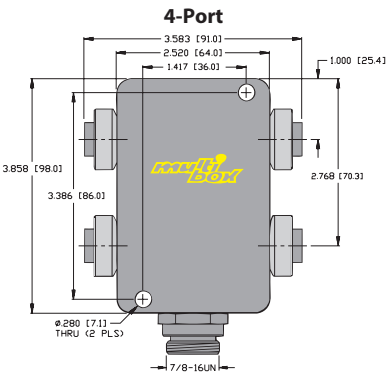
We reserve the right to make technical alterations without prior notice.

Multibox® Minifast® Junction Boxes, 3-Pin

Specifications

Housing:	Die cast aluminum alloy	Temperature:	-40 °C to +90 °C (-40 °F to +194 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	Protection Class:	IEC IP67
Contacts:	Gold plated brass	Cable Length:	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

Dimensions



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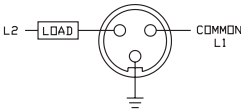
Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

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Pinout

3-pin Minifast	6-pin Minifast	12-pin Multifast®
Female	Male	Male

Wiring Diagrams



Load (L2) is individual output.
Common (L1) and Ground are wired parallel internally.

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, 3-pin

- 6 and 8 Ports
- Quick Disconnect Minifast Connector
- Simplifies Wiring Installations



6-Port, 250 VAC / 300 VDC

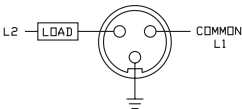
Application	Specifications	Pinout				Part Number
6-port J-box Standard wiring, Minifast connector	4 A/port	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	6 RKF 30-RSF80
	8 A total	Common (L1)	5 / WH	J3 Load (L2)	4 / BK	
	8-pin Minifast connector	Ground	7 / GN	J4 Load (L2)	2 / BU	
	8 conductors. Mates with	J1 Load (L2)	6 / RD	J5 Load (L2)	3 / WH / BK	
	RKM 86-*M	J2 Load (L2)	1 / OG	J6 Load (L2)	8 / RD / BK	

8-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
8-port J-box Standard wiring, Minifast connector	4 A/port	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	8 RKF 30-RSF100
	7 A total	Common (L1)	10 / WH	J4 Load (L2)	2 / BU	
	10-pin Minifast connector	Ground	8 / GN	J5 Load (L2)	3 / WH / BK	
	10 conductors. Mates with	J1 Load (L2)	7 / RD	J6 Load (L2)	4 / RD / BK	
	RKM 106-*M	J2 Load (L2)	1 / OG	J7 Load (L2)	5 / GN / BK	
		J3 Load (L2)	9 / BK	J8 Load (L2)	6 / OG / BK	

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Functional Wiring Diagrams

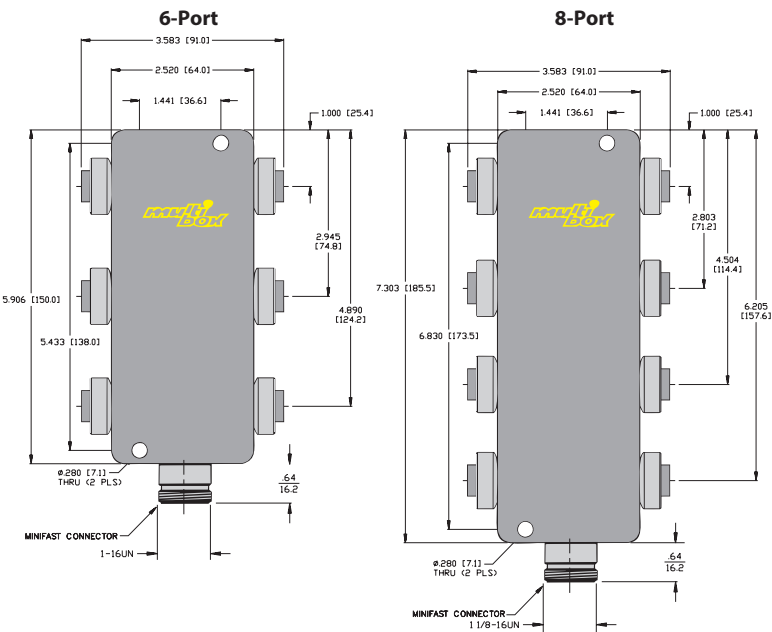


Multibox® Minifast® Junction Boxes, 3-pin

Specifications

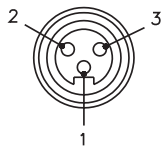
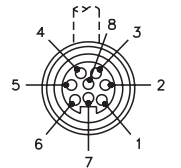
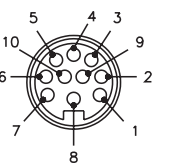
Housing:	Die cast aluminum alloy	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	Protection:	IEC IP67
Contacts:	Gold plated brass		

Dimensions



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

3-pin Minifast	8-pin Minifast	10-pin Minifast
Female	Male	Male
		

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes with LEDs, 3-pin

- 4 and 8 Ports
- M23 Quick Disconnect or Integral Home Run Cable
- Simplifies Wiring Installations
- LEDs for Power and Signal



4-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
4 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 7x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	4 RKF 30-X5-*M
		Common (L1)	WH	J2 Load (L2)	OG	
		LED Power (L2)	WH / BK	J3 Load (L2)	BK	
		Ground	GN	J4 Load (L2)	BU	
		J1 Load (L2)	RD			
4 port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 7 conductors. Mates with CKBM 12-7-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	4 RKF 30-X5-CS12
		Common (L1)	3 / WH	J2 Load (L2)	5 / OG	
		LED Power (L2)	1 / WH/BK	J3 Load (L2)	2 / BK	
		Ground	7 / GN	J4 Load (L2)	6 / BU	
		J1 Load (L2)	4 / RD			

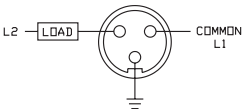
8-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
8 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 11x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8 RKF 30-X9-*M
		Common (L1)	WH	J4 Load (L2)	BU	
		LED Power (L2)	BU / BK	J5 Load (L2)	WH / BK	
		Ground	GN	J6 Load (L2)	RD / BK	
		J1 Load (L2)	RD	J7 Load (L2)	GN / BK	
		J2 Load (L2)	OG	J8 Load (L2)	OG / BK	
		J3 Load (L2)	BK			
8 port J-box, Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 11 conductors. Mates with CKBM 12-11-*	<u>Function</u>	<u>Pin / Color</u>	<u>Function</u>	<u>Pin / Color</u>	8 RKF 30-X9-CS12
		Common (L1)	11 / WH	J4 Load (L2)	2 / BU	
		LED Power (L2)	7 / BU/BK	J5 Load (L2)	3 / WH / BK	
		Ground	9 / GN	J6 Load (L2)	4 / RD / BK	
		J1 Load (L2)	10 / RD	J7 Load (L2)	5 / GN / BK	
		J2 Load (L2)	1 / OG	J8 Load (L2)	6 / OG / BK	
		J3 Load (L2)	12 / BK			

* Length in meters.

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

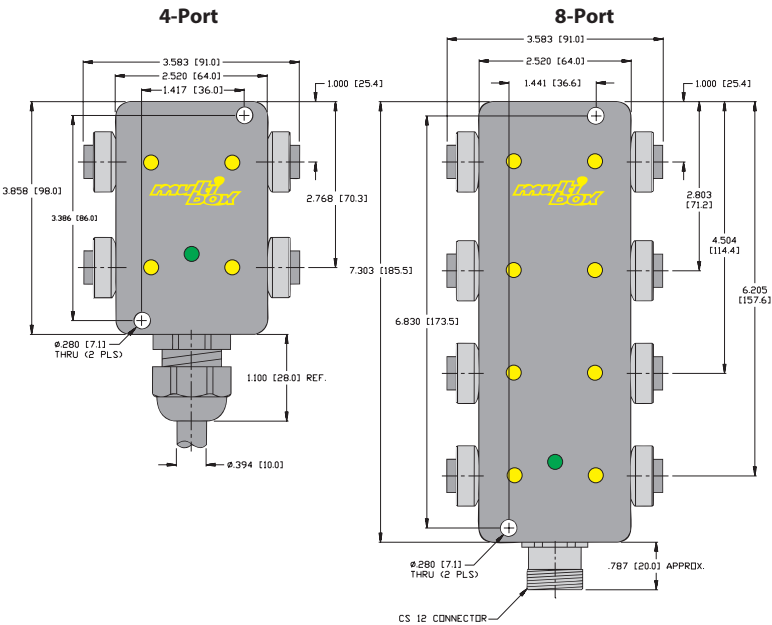


Multibox® Minifast® Junction Boxes with LEDs, 3-pin

Specifications

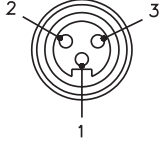
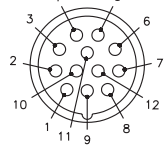
Housing:	Die cast aluminum alloy	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	Protection Class:	IEC IP67
Contacts:	Gold plated brass	Cable Length:	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

Dimensions



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.
Green LED = Power on (center position)
Yellow LED = Signal (outer position).

Pinout

3-pin Minifast	12-pin Multifast®
Female	Male
	

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Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes with LEDs, 3-pin

- 4 and 8 Ports
- Quick Disconnect Minifast Connector
- Simplifies Wiring Installations
- LEDs for Power and Signal



4-Port, 40-120 VAC

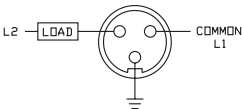
Application	Specifications	Pinout				Part Number
4-port J-box Standard wiring, Minifast connector	4 A/port	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	4 RKF 30-X5-RSF70
	8 A total	Common (L1)	3 / WH	J2 Load (L2)	5 / OG	
	7-pin Minifast connector	LED Pwr (L2)	1 / WH / BK	J3 Load (L2)	2 / BK	
	7 conductors. Mates with	Ground	7 / GN	J4 Load (L2)	6 / BU	
	RKM 76-*M	J1 Load (L2)	4 / RD			

8-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
8-port J-box Standard wiring, Minifast connector	4 A/port	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8 RKF 30-X9-RSF120
	7 A total	Common (L1)	11 / WH	J4 Load (L2)	2 / BU	
	12-pin Minifast connector	LED Pwr (L27)	1 / BU / BK	J5 Load (L2)	3 / WH / BK	
	11 conductors. Mates with	Ground	9 / GN	J6 Load (L2)	4 / RD / BK	
	RKM 126-*M	J1 Load (L2)	10 / RD	J7 Load (L2)	5 / GN / BK	
		J2 Load (L2)	1 / OG	J8 Load (L2)	6 / OG / BK	
		J3 Load (L2)	12 / BK			

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

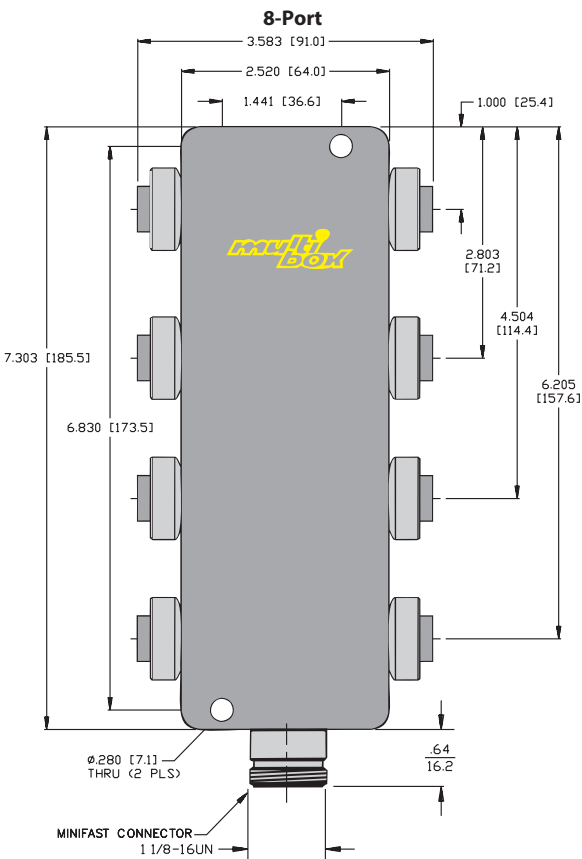
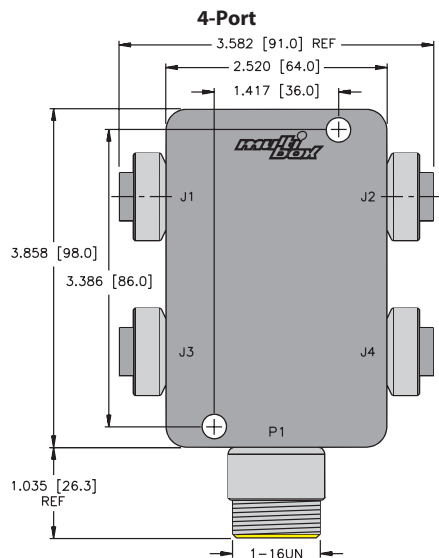


Multibox® Minifast® Junction Boxes with LEDs, 3-pin

Specifications

Housing:	Die cast aluminum alloy	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	Protection:	IEC IP67
Contacts:	Gold plated brass		

Dimensions



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

3-pin Minifast	7-pin Minifast	12-pin Minifast
Female	Male	Male

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, 4-pin

- 4, 6 and 8 Ports
- Integral Home Run Cable
- Simplifies Wiring Installations



4-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
4-port J-box, 4-pin connectors, Integral cable	4 A/port, 9 A total PVC cable, black, 6x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	4 RKF 40-*M
		Common +V	WH	J2 Load	OG	
		Ground -V	GN	J3 Load	BK	
		J1 Load	RD	J4 Load	BU	

6-Port, 250 VAC/300 VDC

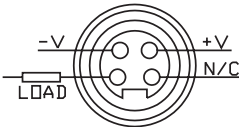
Application	Specifications	Pinout				Part Number
6-port J-box, 4-pin connectors, Integral cable	4 A/port, 9 A total PVC cable, black, 8x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	6 RKF 40-*M
		Common +V	WH	J3 Load	BK	
		Ground -V	GN	J4 Load	BU	
		J1 Load	RD	J5 Load	YE	
		J2 Load	OG	J6 Load	BN	

8-Port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
8-port J-box, 4-pin connectors, Integral cable	4 A/port, 9 A total PVC cable, black, 10x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	8 RKF 40-*M
		Common +V	WH	J4 Load	BU	
		Ground -V	GN	J5 Load	GY	
		J1 Load	RD	J6 Load	YE	
		J2 Load	VT	J7 Load	OG	
		J3 Load	BK	J8 Load	BN	

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams

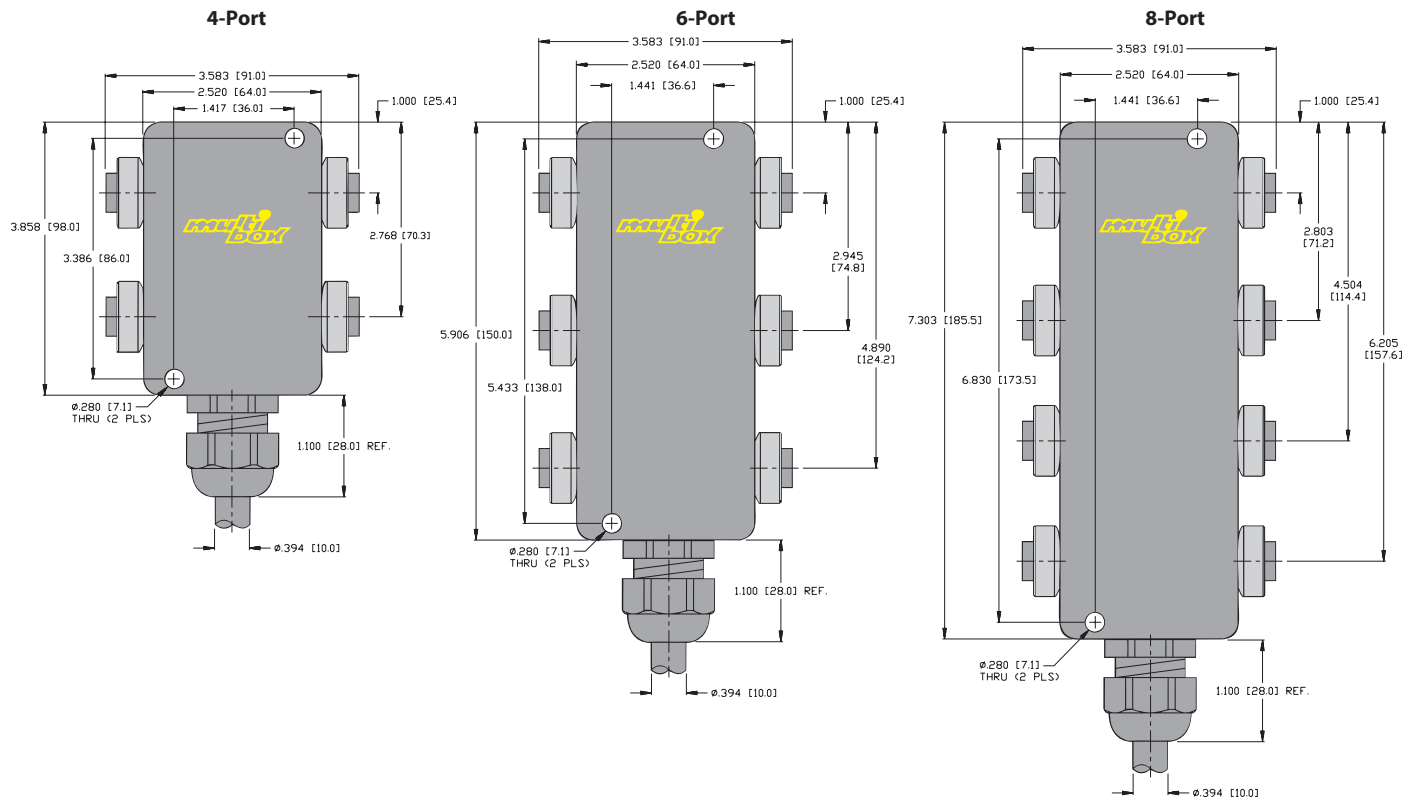


Power (pin 1 and pin 3) are wired parallel internally.
Load (pin 4) is individual output. Pin 2 is not used.

Specifications

Housing:	Die cast aluminum alloy	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	Protection Class:	IEC IP67
Contacts:	Gold plated brass	Cable Length:	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

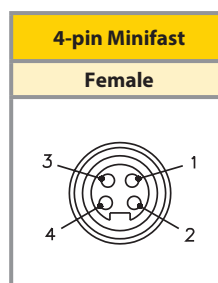
Dimensions



Notes

Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout



Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, 4-pin

- 4, 6 and 8 Ports
- Quick Disconnect Minifast Connector
- Simplifies Wiring Installations



4-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
4-port J-box 4-pin connectors, Minifast connector	4 A/port 8 A total 6-pin Minifast connector 6 conductors. Mates with RKM 66-*M	<u>Function</u> Common +V Ground -V J1 Load	<u>Pin/Color</u> 1 / WH 3 / GN 2 / RD	<u>Function</u> J2 Load J3 Load J4 Load	<u>Pin/Color</u> 4 / OG 5 / BK 6 / BU	4 RKF 40-RSF6B6

6-Port, 250 VAC / 300 VDC

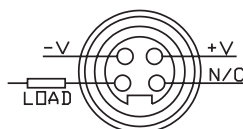
Application	Specifications	Pinout				Part Number
6-port J-box 4-pin connectors, Minifast connector	4 A/port 8 A total 8-pin Minifast connector 8 conductors. Mates with RKM 86-*M	<u>Function</u> Common +V Ground -V J1 Load J2 Load	<u>Pin/Color</u> 5 / WH 7 / GN 6 / RD 1 / OG	<u>Function</u> J3 Load J4 Load J5 Load J6 Load	<u>Pin/Color</u> 4 / BK 2 / BU 3 / WH / BK 8 / RD / BK	6 RKF 40-RSF80

8-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
8-port J-box 4-pin connectors, Minifast connector	4 A/port 7 A total 10-pin Minifast connector 10 conductors. Mates with RKM 106-*M	<u>Function</u> Common +V Ground -V J1 Load J2 Load J3 Load	<u>Pin/Color</u> 10 / WH 8 / GN 7 / RD 1 / OG 9 / BK	<u>Function</u> J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	<u>Pin/Color</u> 2 / BU 3 / WH / BK 4 / RD / BK 5 / GN / BK 6 / OG / BK	8 RKF 40-RSF100

We reserve the right to make technical alterations without prior notice.

Functional Wiring Diagrams



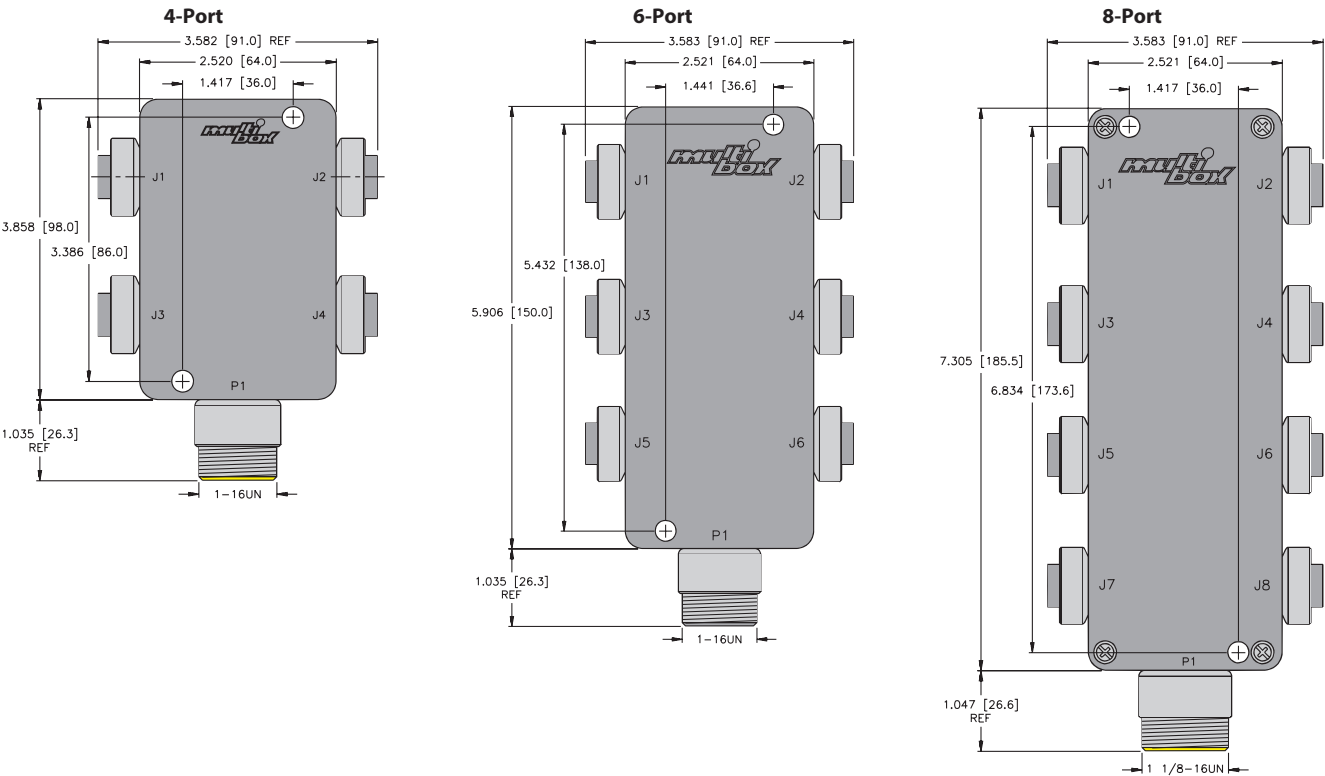
Power (pin 1 and pin 3) are wired parallel internally.
Load (pin 4) is individual output. Pin 2 is not used.

Multibox® Minifast® Junction Boxes, 4-pin

Specifications

Housing:	Die cast aluminum alloy	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	Protection:	IEC IP67
Contacts:	Gold plated brass		

Dimensions



Notes
Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

4-pin Minifast	6-pin Minifast	8-pin Minifast	10-pin Minifast
Female	Male	Male	Male

Junction Box Connectivity Products

Multibox® Minifast® Junction Boxes, Series Wired

- 4, 6 and 8 Ports
- Minifast Quick Disconnect or Integral Home Run Cable
- Simplifies Wiring Installations
- Series Wired for Logic Wiring and or NOR Junction



4-Port, 250 VAC/300 VDC

Application	Specifications	Pinout		Part Number
4 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3/16 AWG	Function Common (L1) Ground Load (L2) Color WH GN BK	4 RKF 301-*M	
4 port J-box Series wired Minifast connector	4 A/port, 4 A total 3-pin Minifast connector, 3 conductors. Mates with RKM 36-*M	Function Common (L1) Ground Load (L2) Pin/Color 3 / WH 1 / GN 2 / BK	4 RKF 301-B1131	

6-Port, 250 VAC/300 VDC

Application	Specifications	Pinout		Part Number
6 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3/16 AWG	Function Common (L1) Ground Load (L2) Color WH GN BK	6 RKF 301-*M	
6 port J-box Series wired Minifast connector	4 A/port, 4 A total 3-pin Minifast connector, 3 conductors. Mates with RKM 36-*M	Function Common (L1) Ground Load (L2) Pin/Color 3 / WH 1 / GN 2 / BK	6 RKF 301-B1131	

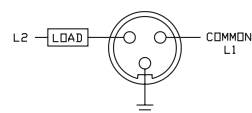
8-Port, 250 VAC/300 VDC

Application	Specifications	Pinout		Part Number
8 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3x16 AWG	Function Common (L1) Ground Load (L2) Color WH GN BK	8 RKF 301-*M	
8 port J-box Series wired Minifast connector	4 A/port, 4 A total 3-pin Minifast connector, 3 conductors. Mates with RKM 36-*M	Function Common (L1) Ground Load (L2) Pin/Color 3 / WH 1 / GN 2 / BK	8 RKF 301-B1131	

We reserve the right to make technical alterations without prior notice.

Housing Style	Part Number	Features	Pinout
	RSM 30-J23	Jumper plug for use on unused inputs	

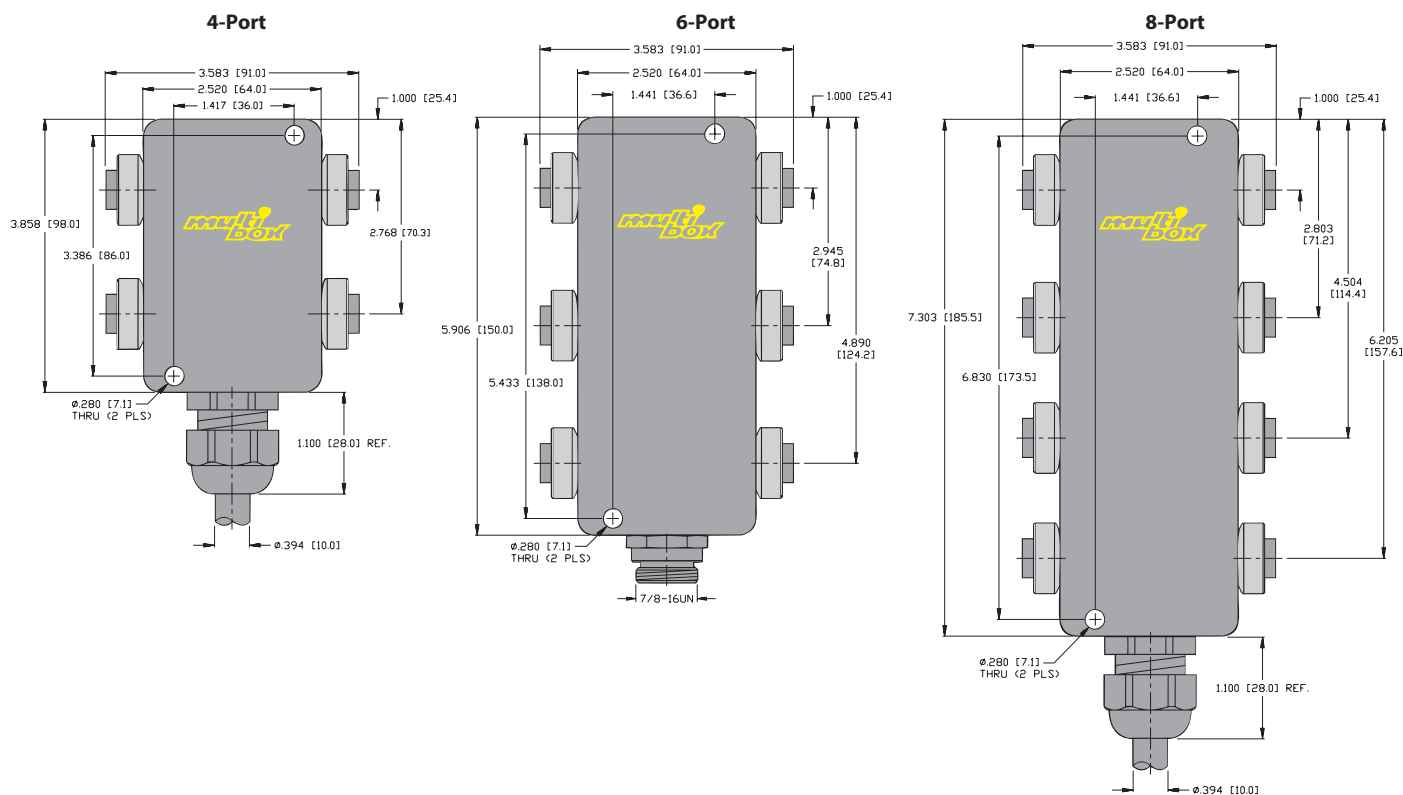
Functional Wiring Diagrams



Specifications

Housing:	Die cast aluminum alloy	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nickel plated brass, oil resistant TPU contact carrier	Protection:	IEC IP67
Contacts:	Gold plated brass	Cable Length:	Standard cable length is 6 meters. Other lengths available by request - consult factory
Cable:	See table for specifications		

Dimensions



Notes

Clearance holes for 1/4-20 screws (2 places).
All housings are 34 mm in height.

Pinout

3-pin Minifast	
Female	Male

Junction Box Connectivity Products

Multibox® Microfast® Junction Boxes

- 4, 6 and 8 Ports
- For AC Sensors
- M23 Quick Disconnect, Minifast® Connector or Integral Home Run Cable
- Simplifies Wiring Installations



4-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
4-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 6x18 AWG, foil shield and 20 AWG drain	<u>Function</u> Common (L1) Ground J1 Load (L2)	<u>Color</u> WH GN RD	<u>Function</u> J2 Load (L2) J3 Load (L2) J4 Load (L2)	<u>Color</u> OG BK BU	VBKB 40-*
4-port J-box Standard wiring, Multifast® connector	4 A/port, 7 A total 12-pin Multifast connector, 6 conductors. Mates with CKRM 12-6-*	<u>Function</u> Common (L1) Ground J1 Load (L2)	<u>Pin/Color</u> 5 / WH 7 / GN 6 / RD	<u>Function</u> J2 Load (L2) J3 Load (L2) J4 Load (L2)	<u>Pin/Color</u> 1 / OG 4 / BK 2 / BU	VBKB 40-CS12
4-port J-box Standard wiring Minifast connector	4 A/port, 9 A total 6-pin Minifast connector, 6 conductors. Mates with RKM 66-*M	<u>Function</u> Common (L1) Ground J1 Load (L2)	<u>Pin/Color</u> 1 / WH 3 / GN 2 / RD	<u>Function</u> J2 Load (L2) J3 Load (L2) J4 Load (L2)	<u>Pin/Color</u> 4 / OG 5 / BK 6 / BU	VBKB 40-B1161

6-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
6-port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 8x18 AWG, foil shield and 20 AWG drain	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2)	<u>Color</u> WH GN RD OG	<u>Function</u> J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	<u>Color</u> BK BU YE BN	VBKB 60-*
6-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 8 conductors. Mates with CKRM 12-8-*	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2)	<u>Pin/Color</u> 5 / WH 7 / GN 6 / RD 1 / OG	<u>Function</u> J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	<u>Pin/Color</u> 4 / BK 2 / BU 3 / YE 8 / BN	VBKB 60-CS12

8-Port, 250 VAC / 300 VDC

Application	Specifications	Pinout				Part Number
8-port J-box Standard wiring, Integral cable	4 A/port, 9 A total PVC cable, black, 10x18 AWG, foil shield and 20 AWG drain	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	<u>Color</u> WH GN RD VT BK	<u>Function</u> J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	<u>Color</u> BU GY YE OG BN	VBKB 80-*
8-port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 10 conductors. Mates with CKRM 12-10-*	<u>Function</u> Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	<u>Pin/Color</u> 5 / WH 7 / GN 6 / RD 1 / VT 4 / BK	<u>Function</u> J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	<u>Pin/Color</u> 2 / BU 3 / GY 8 / YE 9 / OG 10 / BN	VBKB 80-CS12

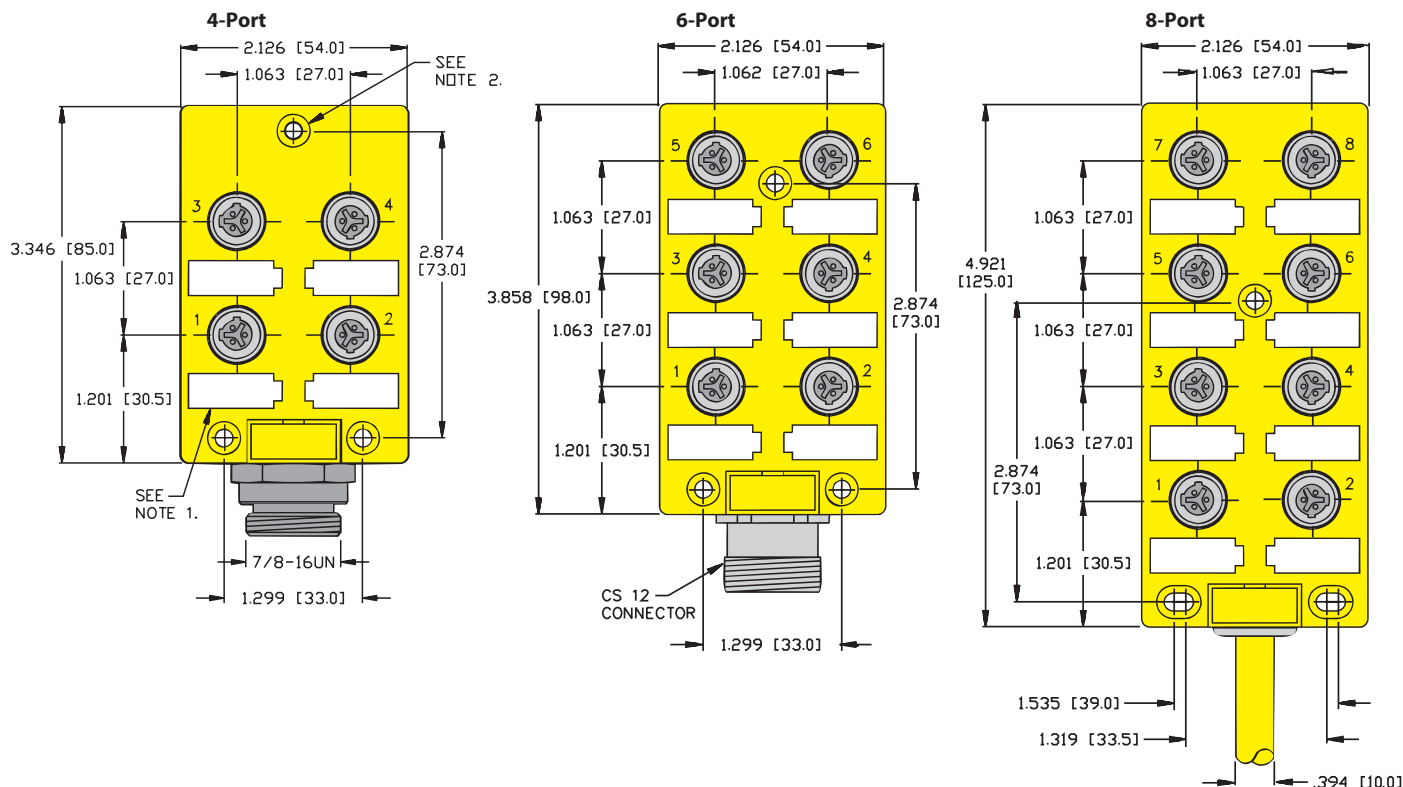
* Length in meters.

We reserve the right to make technical alterations without prior notice.

Specifications

Housing:	Nylon	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nylon (Microfast)	Protection:	IEC IP67
Contacts:	Gold plated brass	Cable Length:	Standard cable length is nominal 5 meters. Other lengths available by request - consult factory
Thread Inserts:	Nickel plated brass	Accessories:	(2) SB-CC closure caps and a VZ1 label kit included
Cable:	See table		

Dimensions



Notes

- Removable labels included.
- Clearance holes for #8 screws (3 places).
- Housings with integral cable: 23 mm in thickness.
- Housings with quick disconnect: 33 mm thickness.

Pinout

3-pin Microfast	6-pin Minifast®	12-pin Multifast®
Female	Male	Male

Functional Wiring Diagrams



Junction Box Connectivity Products

Multibox® Microfast® Junction Boxes with LEDs

- 4 and 8 Ports
- For AC Sensors
- Simplifies Wiring Installations
- M23 Quick Disconnect or Integral Home Run Cable
- LEDs for Power and Signal



4-Port, 40-120 VAC

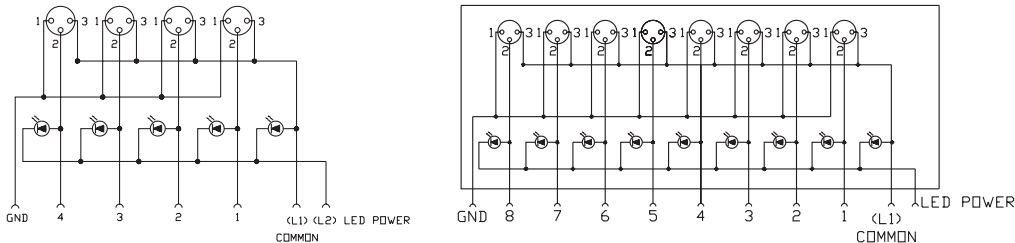
Application	Specifications	Pinout				Part Number
4 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 7x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VBKB 40-X5-*
		Common (L1)	WH	J2 Load (L2)	OG	
		LED Power (L2)	WH / BK	J3 Load (L2)	BK	
		Ground	GN	J4 Load (L2)	BU	
		J1 Load (L2)	RD			
4 port J-box Standard wiring Multifast® connector	4 A/port, 7 A total 12-pin Multifast connector, 7 conductors. Mates with CKBM 12-7-*	<u>Function</u>	<u>Pin/Color</u>	<u>Function</u>	<u>Pin/Color</u>	VBKB 40-X5-CS12v
		Common (L1)	3 / WH	J2 Load (L2)	5 / OG	
		LED Power (L2)	1 / WH/BK	J3 Load (L2)	2 / BK	
		Ground	7 / GN	J4 Load (L2)	6 / BU	
		J1 Load (L2)	4 / RD			

8-Port, 40-120 VAC

Application	Specifications	Pinout				Part Number
8 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 11x18 AWG, foil shield and 20 AWG drain	<u>Function</u>	<u>Color</u>	<u>Function</u>	<u>Color</u>	VBKB 80-X9-*
		Common (L1)	WH	J4 Load (L2)	BU	
		LED Power (L2)	BU / BK	J5 Load (L2)	WH / BK	
		Ground	GN	J6 Load (L2)	RD / BK	
		J1 Load (L2)	RD	J7 Load (L2)	GN / BK	
		J2 Load (L2)	OG	J8 Load (L2)	OG / BK	
		J3 Load (L2)	BK			
8 port J-box Standard wiring Multifast connector	4 A/port, 7 A total 12-pin Multifast connector, 11 conductors. Mates with CKBM 12-11-*	<u>Function</u>	<u>Pin/Color</u>	<u>Function</u>	<u>Pin/Color</u>	VBKB 80-X9-CS12
		Common (L1)	11 / WH	J4 Load (L2)	2 / BU	
		LED Power (L2)	7 / BU/BK	J5 Load (L2)	3 / WH / BK	
		Ground	9 / GN	J6 Load (L2)	4 / RD / BK	
		J1 Load (L2)	10 / RD	J7 Load (L2)	5 / GN / BK	
		J2 Load (L2)	1 / OG	J8 Load (L2)	6 / OG / BK	
		J3 Load (L2)	12 / BK			

We reserve the right to make technical alterations without prior notice.

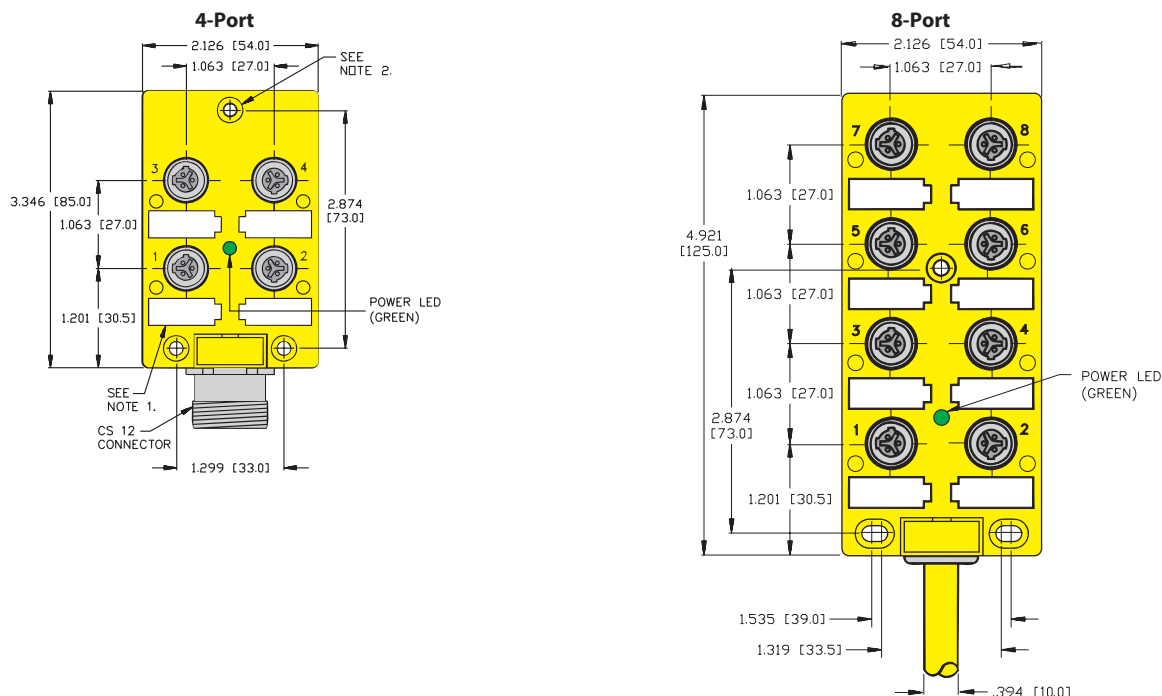
Functional Wiring Diagrams



Specifications

Housing:	Nylon	Temperature:	-30 °C to +80 °C (-22 °F to +176 °F)
Connectors:	Nylon (Microfast)	Protection:	IEC IP67
Contacts:	Gold plated brass	Cable Length:	Standard cable length is nominal 5 meters. Other lengths available by request - consult factory
Thread Inserts:	Nickel plated brass	Accessories:	(2) SB-CC closure caps and a VZ1 label kit included
Cable:	See table		

Dimensions



Notes

- Removable labels included.
- Clearance holes for #8 screws (3 places).
- Housings with integral cable: 23 mm in thickness.
- Housings with quick disconnect: 33 mm thickness.
- Green LED = Power on (center position).
- Yellow LED = Signal (outer position).

Pinout

3-pin Microfast	12-pin Multifast®
Female	Male

Junction Box Connectivity Products

Accessories

Drawing	Part Number	Features
	RKF-MC	Nickel plated brass, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to male cordsets, receptacles, or junction box
	RKFV-MC	Stainless Steel, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to male cordsets, receptacles, or junction box
	RSF-MC	Nickel plated brass, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	RSFV-MC	Stainless Steel, 7/8-16 UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	RSFK-MC	Nylon 7/8-16 UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	VZ 1	Nylon, 8 white labels, 8x20 mm each, snap-in labels for Eurofast® and Microfast® junction boxes, valve plugs
	VZ 12	Nylon, 40 white labels, 9x20 mm each, snap-in labels for Eurofast junction boxes, valve plugs

We reserve the right to make technical alterations without prior notice.

Drawing	Part Number	Features	Pinout
	RSM 30-J23	Minifast®, 7/8-16 UN thread, 300 V 80 °C, jumper plug for use on unused inputs for series wired junction boxes	