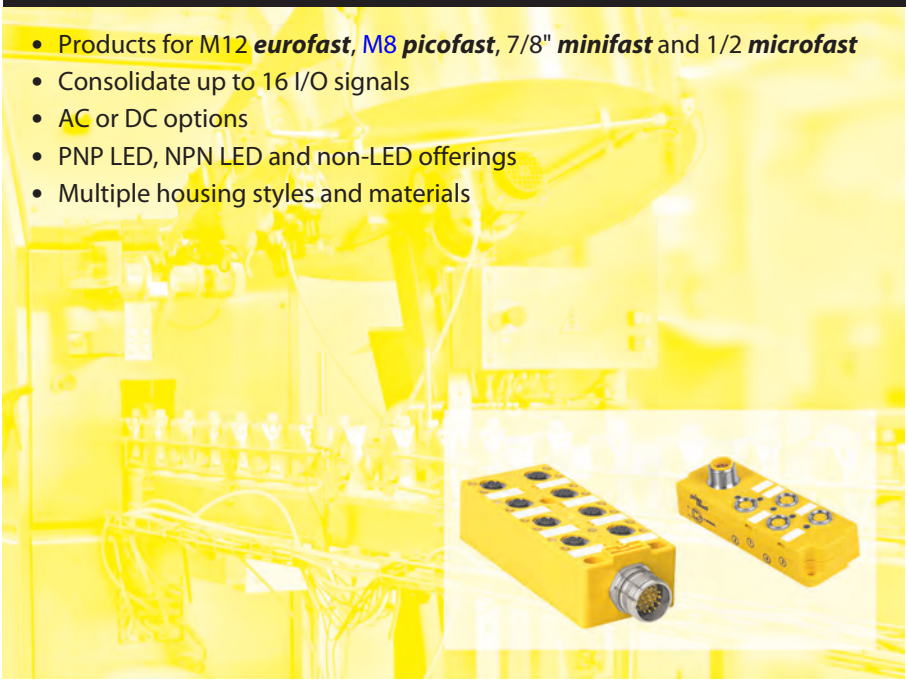
TURCK Junction Box Connectivity Products

Part Number Keys	**S2**
M12 (*eurofast*)	**S4**
M8 *(picofast)*	**S52**
M5 (*pentafast)*	**S62**
7/8" (*minifast*)	**S66**
***1/2" (microfast*)**	**S80**
Accessories	**S84**

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

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TURCK Junction Box Connectivity Products

multibox

M12 *eurofast*® Standard and Low Profile Junction Box Part Number Keys

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

VB [ ] 80.5 - P7X17 - 5 /S..

eurofast Junction Box

Housing Material

(Blank) = Nylon, Connectors on Top
M = Metal, Connectors on Side

Number of Ports, Wiring

2x20 = 4 Ports, 1 Signal Per Port, Isolated Power Supply
2x30 = 6 Ports, 1 Signal Per Port, Isolated Power Supply
2x40 = 8 Ports, 1 Signal Per Port, Isolated Power Supply
40N = 4 Port, NAMUR, 1 Signal Per Port, Common Positive
40x1N = 4 Port, NAMUR, 1 Signal Per Port, Isolated Circuit
40 = 4 Ports, 1 Signal Per Port
40.5 = 4 Ports, 2 Signals Per Port
40.5N = 4 Port, NAMUR, 2 Signals Per Port, Common Positive
4x1.5N = 4 Port, NAMUR, 2 Signals Per Port, Isolated Circuit
60 = 6 Ports, 1 Signal Per Port
60.5 = 6 Ports, 2 Signals Per Port
80 = 8 Ports, 1 Signal Per Port
80.5 = 8 Ports, 2 Signals Per Port

LED Options

(Blank) = No LEDs
P7Xn = PNP LEDs, n = Number of LEDs
N7Xn = NPN LEDs, n = Number of LEDs

Connection Type

* = Length of Integral Home Run Cable in Meters
CS y = ***multifast*** Connectors, y = Number of Pins
B1161 = ***minifast*** Connector, 6-pin
H1151 = ***eurofast*** Connector, 5-pin

Varieties

/S90 = PUR Jacket
/S .. = Consult Factory, Customer Special
/CS .. = Consult Factory, Customer Special

8 MB [ ] 12 - 5 P 3 - K - FK

Number of Ports

4 = 4-ports
8 = 8-ports

multibox

Housing Material

(Blank) = Nickel Plated Brass
V = 316 Stainless Steel

Port Connector Type

M12 = miniature ***eurofast*** 12 = ***eurofast***
12Z = ***eurofast*** - low profile

Port Pin Count

4 = 4 pin
5 = 5 pin

LED Type

(Blank) = no LED
P = PNP LED
N = NPN LED

Number of LEDs

1 = power LED only
2 = 1 signal LED per port, 1 power LED
3 = 2 signal LEDs per port, 1 power LED
4 = 2 signal LEDs per port, 2 power LEDs

Body Material (terminal chamber only)

(Blank) = Nylon
K = Plastic
MS = Metal, Shielded

Connection Type

CS 12 = 12 pin M23 male receptacle
CS 19 = 19 pin M23 male receptacle
CSV 12 = 12 pin M23 male stainless steel receptacle
CSV 19 = 19 pin M23 male stainless steel receptacle
* = Cable length
*-CSM12 = Molded 12 pin M23 male/female
*-CSSM12 = Molded 12 pin M23 male/male
*-CSM19 = Molded 19 pin M23 male/female
*-CSSM19 = Molded 19 pin M23 male/male
RSF 120 = 12 pin ***minifast*** male, receptacle
RSF 190 = 19 pin ***minifast*** male, receptacle
*-RSM 120 = Molded 12 pin minifast male
FK = Terminal chamber w/spring clamp
SK = Terminal chamber w/screw clamp
_H = Side exit connector

M8 *picofast*® Junction Box Part Number Key

VB 1003 [ ] - PX10 - BS1614

***picofast* Junction Box**

Number of Ports

403 = 4-port, 1 signal per port
404 = 4-port, 2 signals per port
803 = 8-port, 1 signal per port
804 = 8-port, 2 signals per port
1003 = 10-port, 1 signal per port

Locking Method

(Blank) = No Locking Sleeve
Z = Locking Sleeve (Snap lock)
M = M8x1 Threaded Coupling Nut

LED Options

(Blank) = No LEDs
PXn = PNP LEDs, n = Number of LEDs

Connection Type

*C = Length of Integral Home Run Cable in Meters
BS14 = M16 Threads, 14-pins
BS19 = M16 Threads, 19-pins
BS1614 = M16 Threads

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TURCK Junction Box Connectivity Products

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

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

4	RKF	30	-	X5	-	6M	/S..

Number of Ports

4
6
8
Overmolded Junction Boxes
6
7

Type of Connector / Threads

RKF = ***minifast***, Female Contact Holder, Female Threads
RXF = ***minifast***, Female Contact Holder, Male Threads
MBMA = ***minifast*** overmolded junction box

Number of Pins, Wiring

30 = 3-pin, Standard Wiring
301 = 3-pin, Series Wiring
40 = 4-pin, Standard Wiring
Overmolded Junction Boxes
3 = 250 VAC/300 VDC
3A2 = 40-120 VDC, LEDs for power and signal

LED Options

(Blank) = No LEDs
Xn = LEDs, n = Number of LEDs

Type of Connector / Threads

*M = Length of Integral Home Run Cable in Meters
CS12 = ***multifast*** Connector, 12-pin (only overmolded option)
B1131= ***minifast*** Connector, 3-pin
B1161= ***minifast*** Connector, 6-pin
RSF60= ***minifast*** Connector, 6-pin
RSF70= ***minifast*** Connector, 7-pin
RSF80= ***minifast*** Connector, 8-pin
RSF100 = ***minifast*** Connector, 10-pin
RSF120 = ***minifast*** Connector, 12-pin

Varieties

/S .. = Consult Factory, Customer Special
/CS .. = Consult Factory, Customer Special

1/2" *microfast*® Junction Box Part Number Key

VBKB	40	-	X5	-	CS12	/S..

***microfast*® Junction Box**

Number of Ports, Wiring Type

40 = 4 Port, 1 Signal per Port
60 = 6 Port, 1 Signal per Port
80 = 8 Port, 1 Signal per Port

LED Options

(Blank) = No LEDs
Xn = LEDs, n = Number of LEDs

Connection Type

(Number) = Length of Integral Home Run Cable in Meters
CS12= ***multifast*** Connector, 12-pins
B1161 = ***minifast*** Connector, 6-pins

Varieties

/S .. = Consult Factory, Customer Special
/CS .. = Consult Factory, Customer Special

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multibox® eurofast® Miniature Junction Boxes, 4-port

- Single/Dual Input/Output per Port
- Available with or without LEDs
- Rugged Plastic Housing
- M12 or M16 Quick Disconnect or Integral Cable

4-port, 1 Signal Per Port, 10-48 VDC

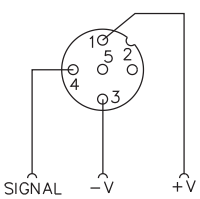
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
4-port J-box 1 signal per port Integral cable	4 A/port 2 A total - 1 power pair 4 A total - dual power Yellow PVC 8/24 AWG	Function / Color / Function / Color +V BN Port 1/4 WH - V BU Port 2/4 GN +V PK Port 3/4 YE - V RD Port 4/4 GY	4MBM12-4-*C	4MBM12-4P2-*C	4MBM12-4N2-*C
4-port J-box 1 signal per port stainless steel Integral cable			4MBMV12-4-*C	4MBMV12-4P2-*C	4MBMV12-4N2-*C
4-port J-box 1 signal per port ***eurofast*** (M12) connector	4 A/port 2 A total w/1 power pair 4 A total w/dual power 8-pin ***eurofast*** connector 8 conductors Mates with RKC 8.8T	Function / Pin / Function / Pin +V 5 Port 1/4 1 - V 7 Port 2/4 2 +V 6 Port 3/4 3 - V 8 Port 4/4 4	4MBM12-4-FS 8	4MBM12-4P2-FS 8	4MBM12-4N2-FS8

4-port, 2 Signals Per Port, 10-48 VDC

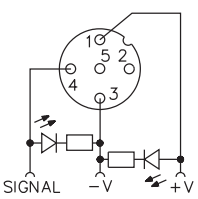
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
4-port J-box 2 signals per port Integral cable	4 A/port 3 A total - 1 power pair 6 A total - dual power Yellow PVC 12/24 AWG	Function / Color / Function / Color +V BN Port 2/4 GN - V BU Port 2/2 RD +V RD/BU Port 3/4 YE - V GY/PK Port 3/2 BK Port 1/4 WH Port 4/4 GY Port 1/2 PK Port 4/2 VT	4MBM12-5-*C	4MBM12-5P3-*C	4MBM12-5N3-*C
4-port J-box 2 signals per port stainless steel Integral cable			4MBMV12-5-*C	4MBMV12-5P3-*C	4MBMV12-5N3-*C
4-port J-box 2 signals per port ***versafast*** (M16) connector	4 A/port 3 A total w/1 power pair 6 A total w/dual power 14-pin ***versafast*** connector 12 conductors Mates with BKM 14-917-*	Function / Pin/Color / Function / Pin/Color +V A/RD/BU Port 2/4 E/GN - V L/GY/PK Port 2/2 R/RD +V M/BN Port 3/4 O/YE - V U/BU Port 3/2 G/BK Port 1/4 P/WH Port 4/4 C/GY Port 1/2 N/PK Port 4/2 S/VT	4MBM12-5-BS14	4MBM12-5P3-BS14	4MBM12-5N3-BS14

Functional Wiring Diagrams

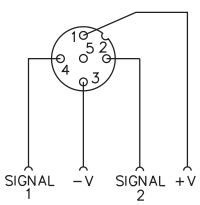
(No LED Version)
1 Signal Per Port



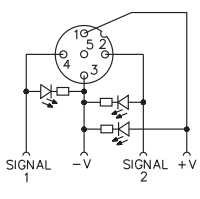
(PNP LED Version)
1 Signal Per Port



(No LED Version)
2 Signals Per Port



(PNP LED Version)
2 Signals Per Port



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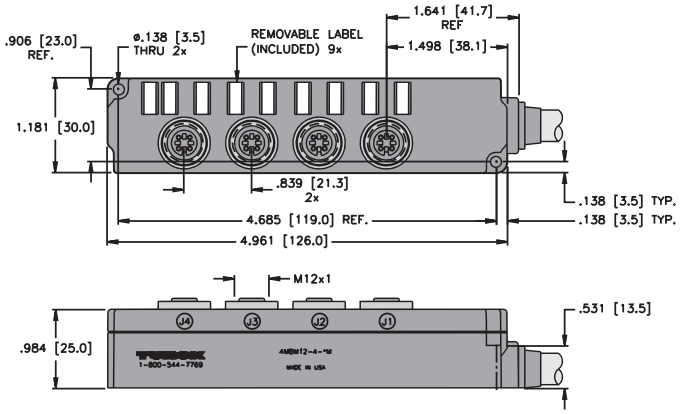
Specifications

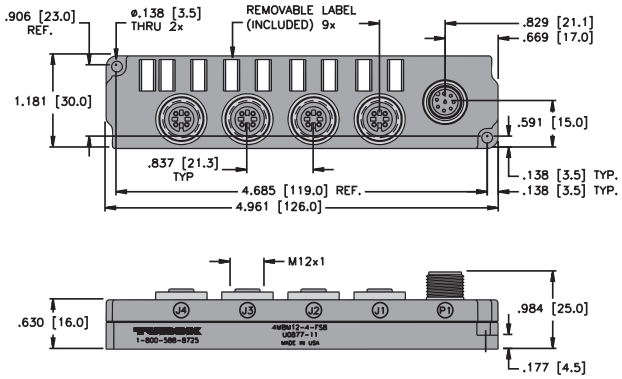
Housing:	Nylon
Connectors:	TPU (M12), PETP (M16)
Contacts:	Gold plated brass.
Thread Inserts:	Nickel plated brass or stainless steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	KS 5/10 labels
Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Recommended Splitter:	YB2-FSM 4.5/2FKM 4.5

Dimensions

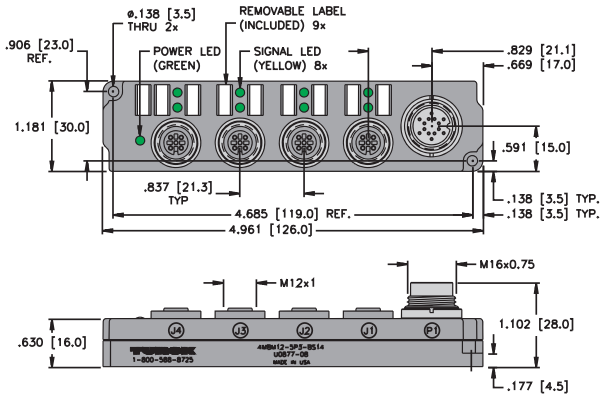
4-Port with Integral Home Run Cable



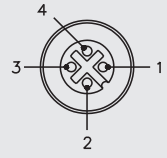
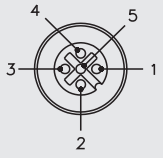
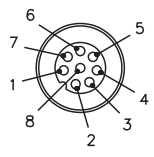
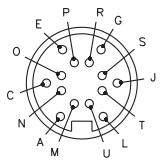
4-Port with *eurofast* Home Run Connector



4-Port with *versafast* Home Run Connector



Pinout

Female	Female	Male	Male
			
4-Pin *eurofast*	**5-Pin *eurofast***	**8-Pin *eurofast***	**14-Pin *versafast***

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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**

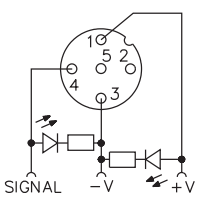
4-port, 1 Signal Per Port, 10-30 VDC

Application	Specifications	Pinout	No LEDs	PNP LED	NPN
4-port J-box 1 signal per port, Integral cable	2 A/signal, 10 A total Yellow PVC cable 7/18 AWG foil shield and 20 AWG drain	Function / Color +V / BN - V / BU Ground / GN / YE Function / Color Port 1 / WH Port 2 / GN Port 3 / YE Port 4 / GY	4MB12Z-4-*	4MB12Z-4P2-*	4MB12Z-4N2-*
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-*	Function / Pin / Color +V / 11/BN - V / 10/BU Ground / 12 / GN/YE Function / Pin / Color Port 1 / 1 / WH Port 2 / 2 / GN Port 3 / 3 / YE Port 4 / 4 / GY	4MB12Z-4-CS12	4MB12Z-4P2-CS12	4MB12Z-4N2-CS12
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-*	Function / Pin / Color +V / 11/BN - V / 10/BU Ground / 12 / GN/YE Function / Pin / Color Port 1 / 1 / WH Port 2 / 2 / GN Port 3 / 3 / YE Port 4 / 4 / GY	4MB12Z-4-CS12H	4MB12Z-4P2-CS12H	4MB12Z-4N2-CS12H

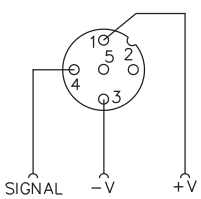
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal Per Port



(No LED Version)
1 Signal Per Port



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TURCK Junction Box Connectivity Products

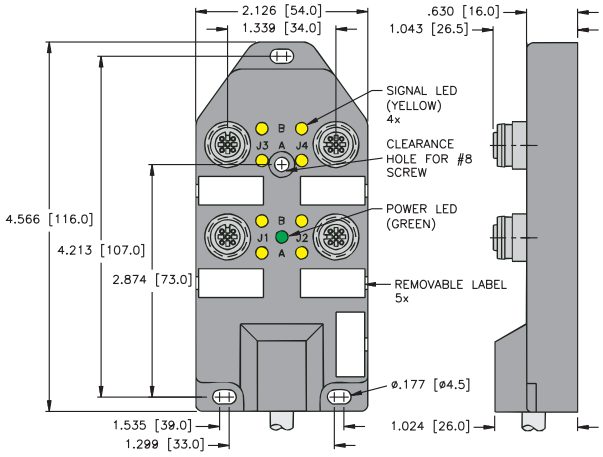
TURCK works Industrial Automation

Specifications

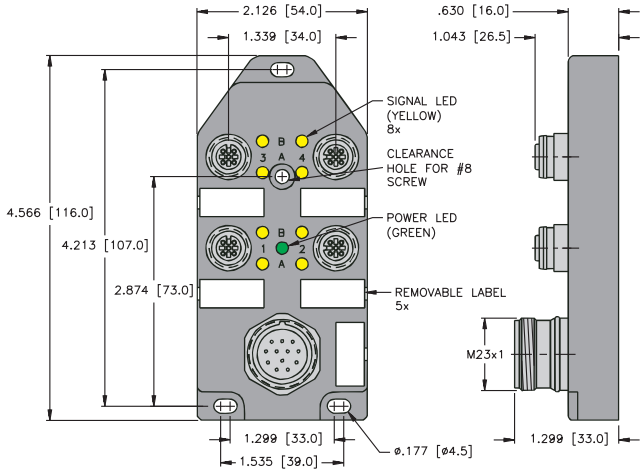
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory

Dimensions

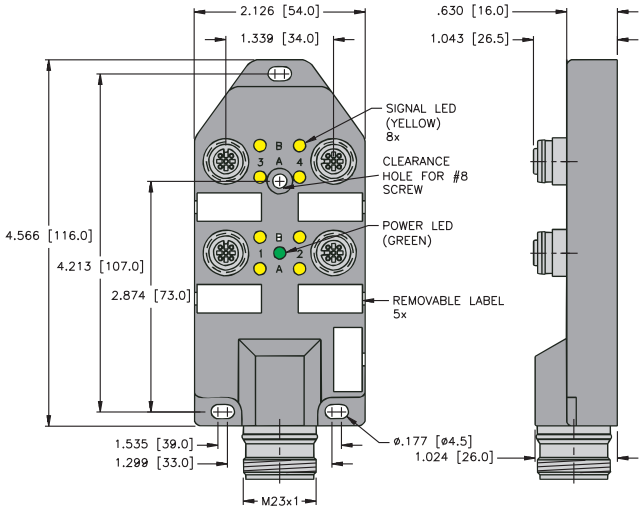
4-Port with Integral Home Run Cable



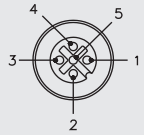
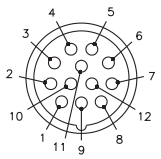
4-Port Quick Disconnect



4-Port Side Connector



Pinout

Female	Male
	
5-Pin *eurofast*	**12-Pin *multifast***

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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**

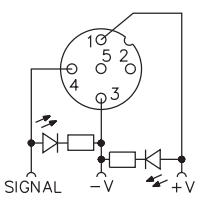
4-port, 1 Signal Per Port, 10-30 VDC

Application	Specifications	Pinout	No LEDs	PNP LEDs	NPN LEDs
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	Function / Pin / Color +V / 10 / RD -V / 11 / WH Ground / 9 / GN Function / Pin / Color Port 1 / 1 / OG Port 2 / 2 / BU Port 3 / 3 / WH/BK Port 4 / 4 / RD/BK	4MB12Z-4-*-RSM 120	4MB12Z-4P2-*-RSM 120	4MB12Z-4N2-*-RSM 120
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	Function / Pin / Color +V / 10 / RD -V / 11 / WH Ground / 9 / GN Function / Pin / Color Port 1 / 1 / OG Port 2 / 2 / BU Port 3 / 3 / WH/BK Port 4 / 4 / RD/BK	4MB12Z-4-RSF120	4MB12Z-4P2-RSF120	- - - - -

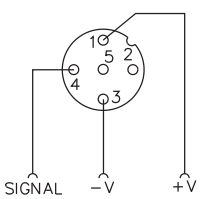
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal Per Port



(No LED Version)
1 Signal Per Port



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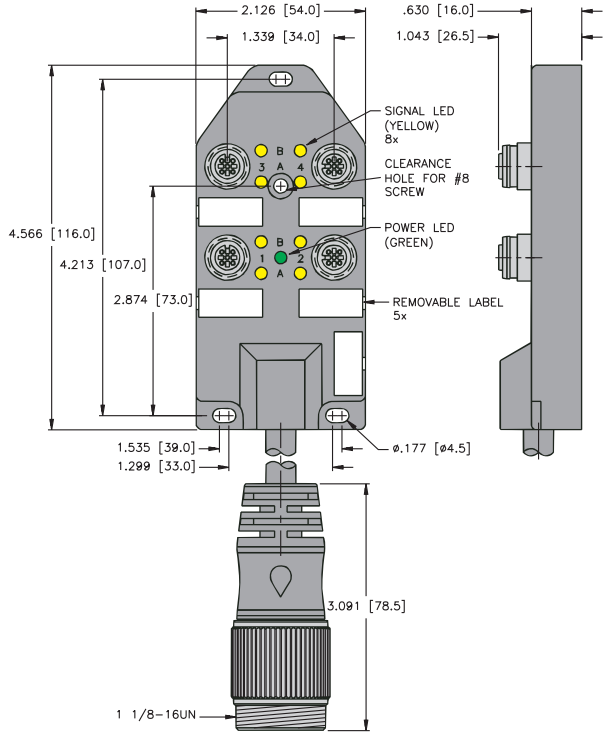
Specifications

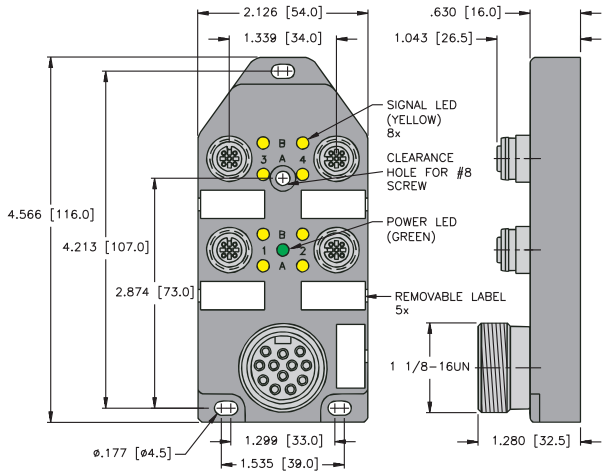
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory

Dimensions

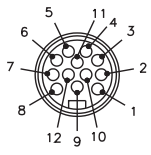
4-Port, Integral Home Run with *minifast*® Connector



4-Port, *minifast* Quick Disconnect



Pinout

Female	Male
	
5-Pin *eurofast*	**12-Pin *minifast***

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multibox® eurofast® Low Profile Junction Boxes, 4-Port

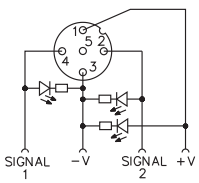
- **Dual Input/Output per port**
- **Rugged Plastic Housing**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**
- **Threaded M12 Connection**

4-port, 2 Signals Per Port, 10-30 VDC

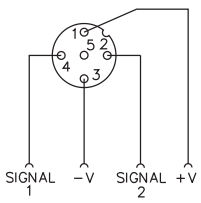
Application	Specifications	Pinout	No LEDs	PNP LED	NPN
4-port J-box 2 signals per port Integral cable	2 A/signal, 10 A total Yellow PVC cable 3/18 AWG, 8/22 AWG foil shield and 20 AWG drain	Function / Color +V / BN - V / BU Ground / GN / YE Port 1, Sig 1 / WH Port 1, Sig 2 / GY / PK Function / Color Port 2, Sig 1 / GN Port 2, Sig 2 / RD / BU Port 3, Sig 1 / YE Port 3, Sig 2 / WH / GN Port 4, Sig 1 / GY Port 4, Sig 2 / BN / GN	4MB12Z-5-*	4MB12Z-5P3-*	4MB12Z-5N3-*
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-*	Function / Pin / Color +V / 19 / BN - V / 6 / BU Ground / 12 / GN / YE Port 1, Sig 1 / 15 / WH Port 1, Sig 2 / 7 / GY / PK Function / Pin / Color Port 2, Sig 1 / 5 / GN Port 2, Sig 2 / 4 / RD / BU Port 3, Sig 1 / 16 / YE Port 3, Sig 2 / 8 / WH / GN Port 4, Sig 1 / 3 / GY Port 4, Sig 2 / 14 / BN / GN	4MB12Z-5-CS19	4MB12Z-5P3-CS19	4MB12Z-5N3-CS19
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-*	Function / Pin / Color +V / 19 / Bn - V / 6 / Bu Ground / 12 / GN / YE Port 1, Sig 1 / 15 / WH Port 1, Sig 2 / 7 / Gy / Pk Function / Pin / Color Port 2, Sig 1 / 5 / GN Port 2, Sig 2 / 4 / Rd / Bu Port 3, Sig 1 / 16 / YE Port 3, Sig 2 / 8 / WH / GN Port 4, Sig 1 / 3 / Gy Port 4, Sig 2 / 14 / Bn / Gn	4MB12Z-5-CS19H	4MB12Z-5P3-CS19H	4MB12Z-5N3-CS19H

Functional Wiring Diagrams

(PNP LED Version)
2 Signals Per Port



(No LED Version)
2 Signals Per Port



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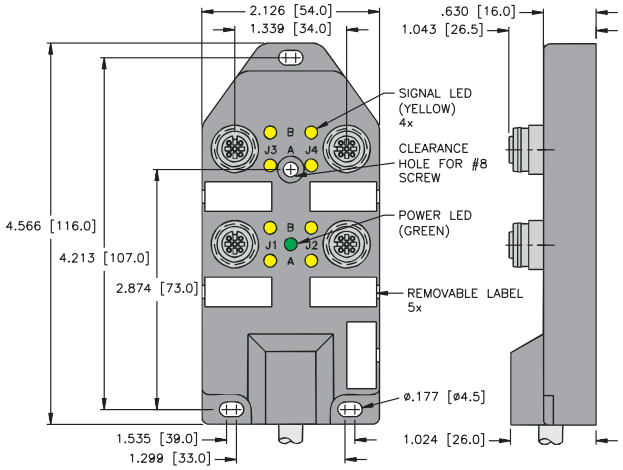
Specifications

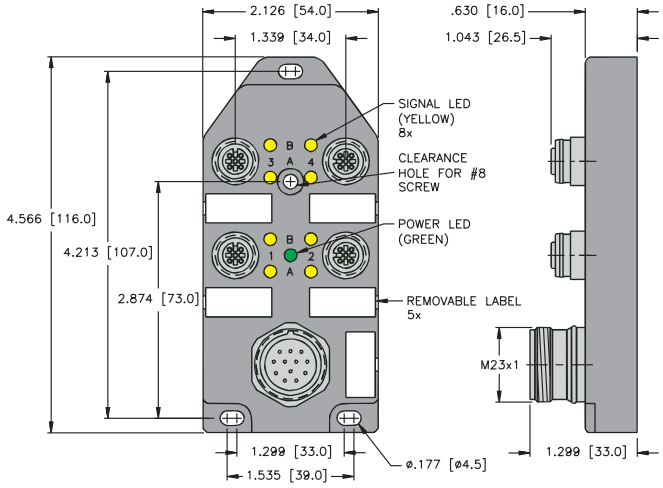
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (5 labels) included
Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Recommended Splitters:	YB2-FSM 4.5-2 FKM 4.5

Dimensions

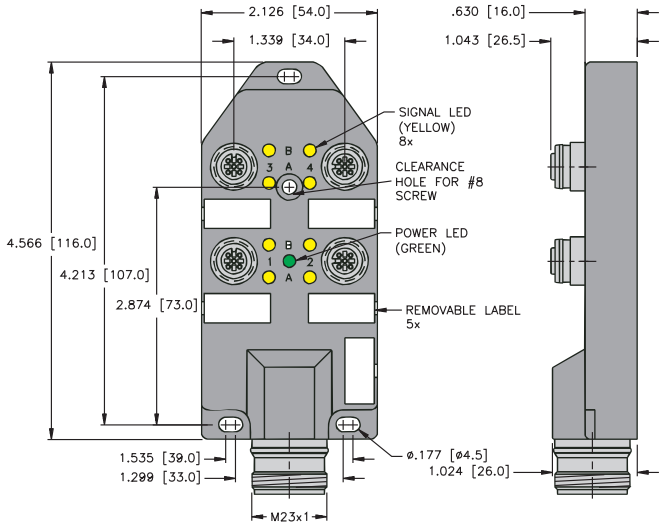
4-Port with Integral Home Run Cable



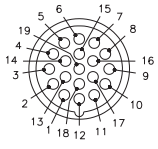
4-Port Quick Disconnect



4-Port Side Connector



Pinout

Female	Male
	
5-Pin *eurofast*	**19-Pin *multifast***

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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**

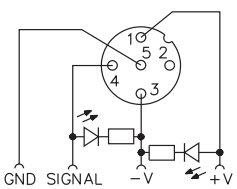
8-port, 1 Signal Per Port, 10-30 VDC

Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
8-port J-box 1 signal per port Integral cable	2 A/signal, 10 A total Yellow PVC cable 11/18 AWG, foil shield and 20 AWG drain with PUR cable, add /S90	Function / Color / Function / Color +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	8MB12Z-4-*	8MB12Z-4P2-*	8MB12Z-4N2-*
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-*	Function / Pin / Color / Function / Pin / Color +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	8MB12Z-4-CS12	8MB12Z-4P2-CS12	8MB12Z-4N2-CS12
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-*	Function / Pin / Color / Function / Pin / Color +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	8MB12Z-4-CS12H	8MB12Z-4P2-CS12H	8MB12Z-4N2-CS12H

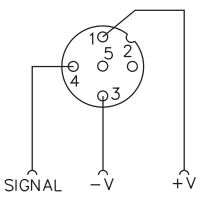
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal Per Port



(No LED Version)
1 Signal Per Port



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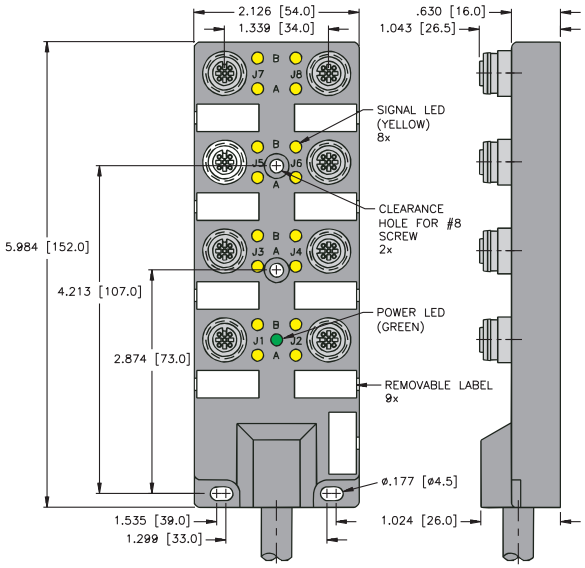
Specifications

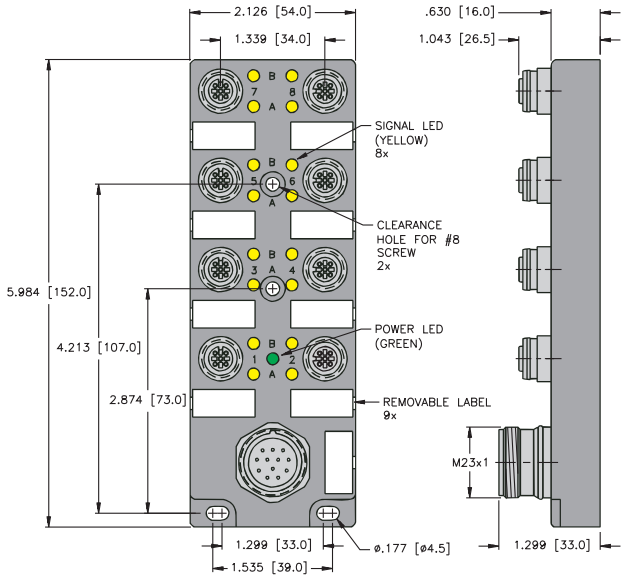
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (9 labels), included
Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory

Dimensions

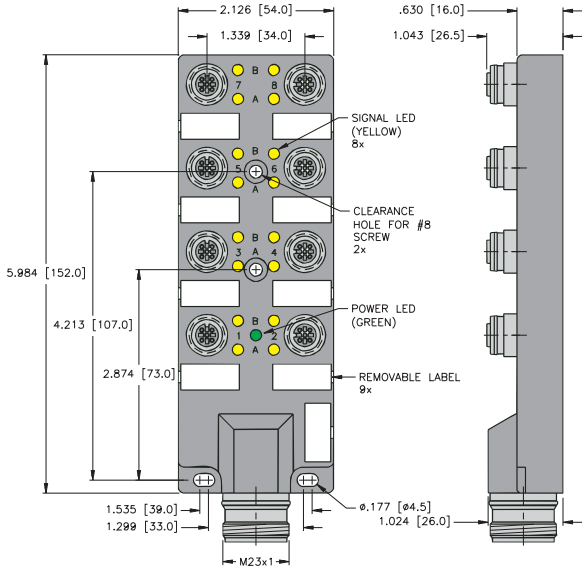
8-Port with Integral Home Run Cable



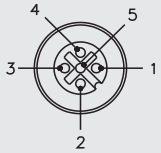
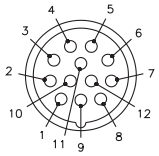
8-Port Quick Disconnect



8-Port with Side Connector



Pinout

Female	Male
	
5-Pin *eurofast*	**12-pin *multifast***

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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

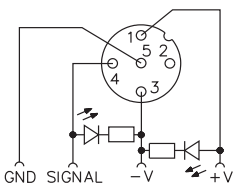
8-port, 1 Signal Per Port, 10-30 VDC

Application	Specifications	Pinout	No LEDs	PNP LEDs	NPN LEDs
8-port J-box 1 signal per port ***minifast*** connector	2 A/signal, 7 A total 12-pin ***minifast*** connector 11 conductors Mates with RKM 126-*M	Function / Pin / Color / Function / Pin / Color +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	8MB12Z-4-*-RSM120	8MB12Z-4P2-*-RSM120	8MB12Z-4N2-*-RSM120
8-port J-box 1 signal per port ***minifast*** connector	2 A/signal, 7 A total 12-pin ***minifast*** connector 11 conductors Mates with RKM 126-*M	Function / Pin / Color / Function / Pin / Color +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	8MB12Z-4-RSF120	8MB12Z-4P2-RSF120	8MB12Z-4N2-RSF120

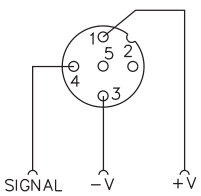
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal Per Port



(No LED Version)
1 Signal Per Port



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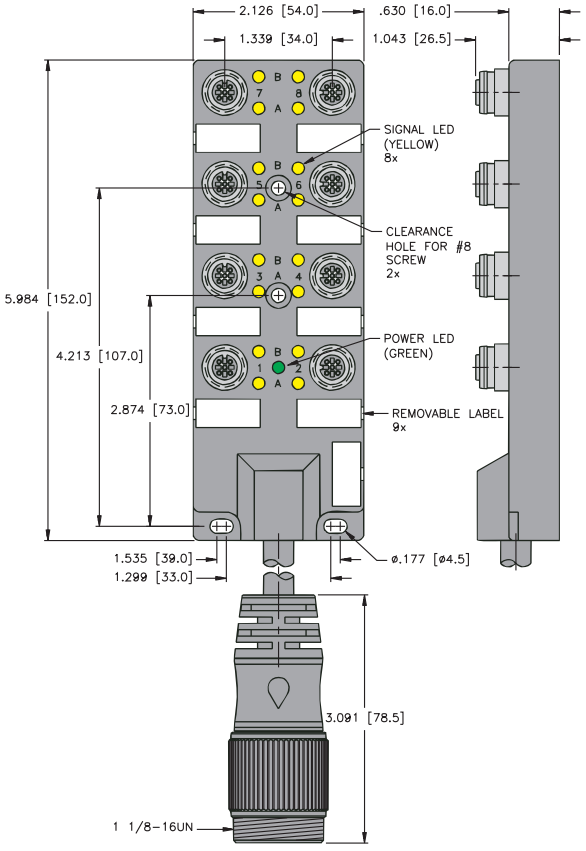
TURCK Junction Box Connectivity Products

Specifications

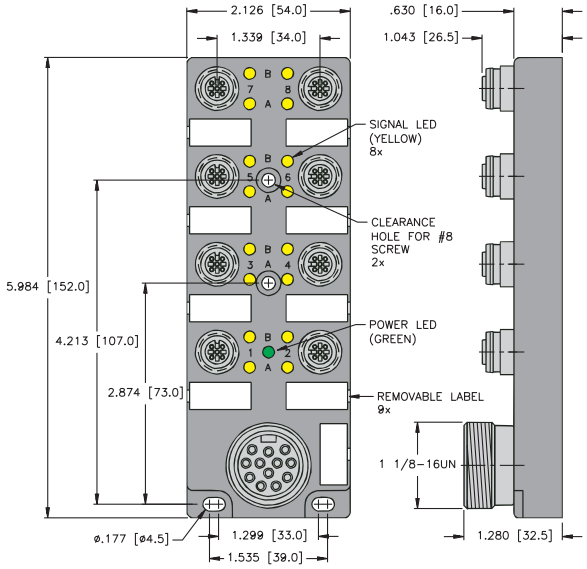
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels), included
Cable Length:	Standard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

Dimensions

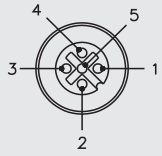
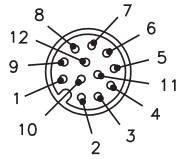
8-Port Integral Home Run with *minifast*® Connector



8-Port *minifast* Quick Disconnect



Pinout

Female	Male
	
5-Pin *eurofast*	**12-pin *minifast***

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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**

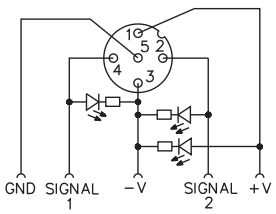
8-port, 2 Signals Per Port, 10-30 VDC

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

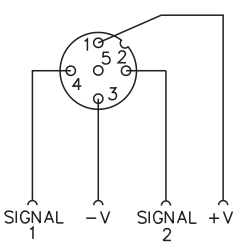
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
2 Signals Per Port



(No LED Version)
2 Signals Per Port



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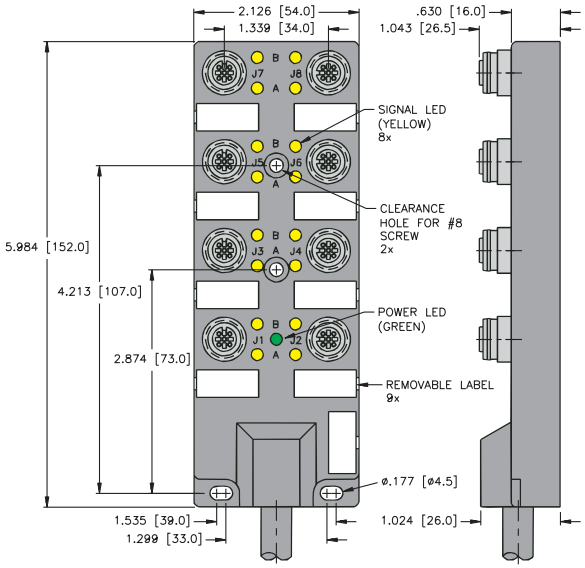
TURCK Junction Box Connectivity Products

Specifications

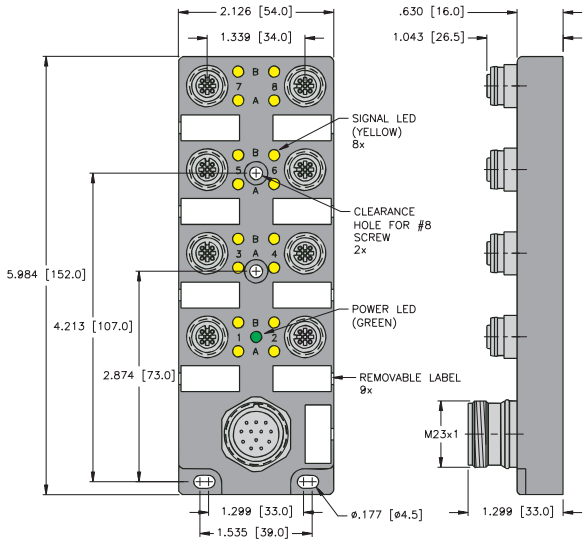
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 12 label kit (9 labels), included
Cable Length:	Standard length is nominal 5 meters. Other lengths available by request - Consult factory
Recommended Splitter:	YB2-FSM 4.5-2FKM 4.5

Dimensions

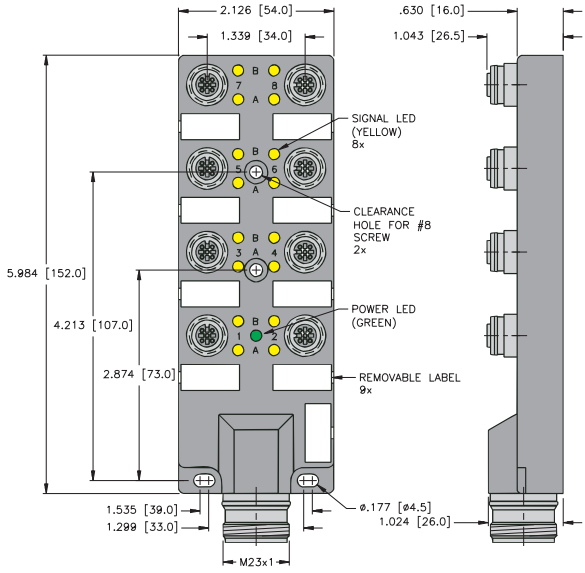
8-Port with Integral Home Run Cable



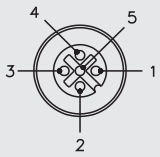
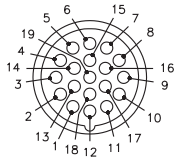
8-Port Quick Disconnect



8-Port Side Connector



Pinout

Female	Male
	
5-Pin *eurofast*	**19-Pin *multifast***

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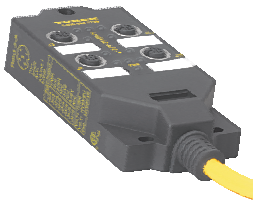


multibox® eurofast®, Junction Boxes, 4-port Stainless Steel Connector Options

- **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 CSA Certified ***with PUR cable, add /S90*	Function / Color +V / BN - V / BU Ground / GN / YE Function / Color Port 1 / WH Port 2 / GN Port 3 / YE Port 4 / GY	4MBV12-4P2-*
4-port J-box 1 signal per port ***multifast*** connector	4 A/port, 8 A total 12-pin ***multifast*** connector 7 conductors Mates with CKCMV 12-7-* CSA Certified	Function / Pin / Color +V / 11 / BN - V / 10 / BU Ground / 12 / GN / YE Function / Pin / Color Port 1 / 1 / WH Port 2 / 2 / GN Port 3 / 3 / YE Port 4 / 4 / GY	4MBV12-4P2-CSV12

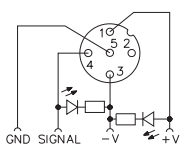
4-port, 2 Signal Per Port, 10-48 VDC

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 CSA Certified ***with PUR cable, add /S90*	Function / Color +V / BN - V / BU Ground / GN/YE Port 1, Sig 1 / WH Port 1, Sig 2 / GY / PK Function / Color Port 2, Sig 1 / GN Port 2, Sig 2 / RD / BU Port 3, Sig 1 / YE Port 3, Sig 2 / WH / GN Port 4, Sig 1 / GY Port 4, Sig 2 / BN / GN	4MBV12-5P3-*
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-* CSA Certified	Function / Pin / Color +V / 19 / BN - V / 6 / BU Ground / 12 / GN/YE Port 1, Sig 1 / 15 / WH Port 1, Sig 2 / 7 / GY/PK Function / Pin / Color Port 2, Sig 1 / 5 / GN Port 2, Sig 2 / 4 / RD / BU Port 3, Sig 1 / 16 / YE Port 3, Sig 2 / 8 / WH / GN Port 4, Sig 1 / 3 / GY Port 4, Sig 2 / 14 / BN / GN	4MBV12-5P3-CSV19

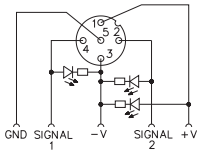
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal Per Port



(PNP LED Version)
2 Signals Per Port



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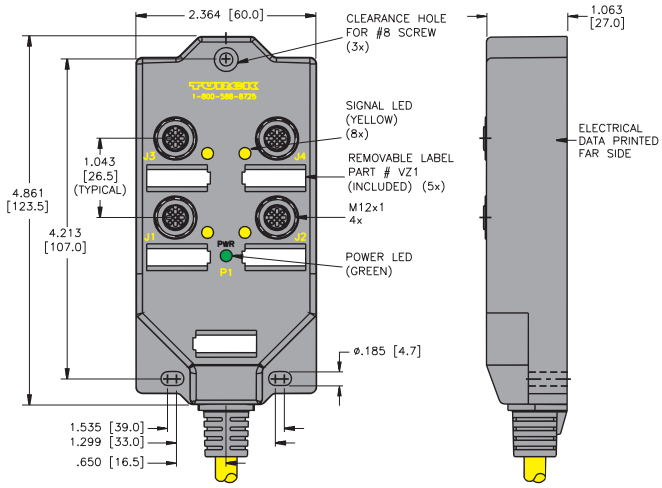
Specifications

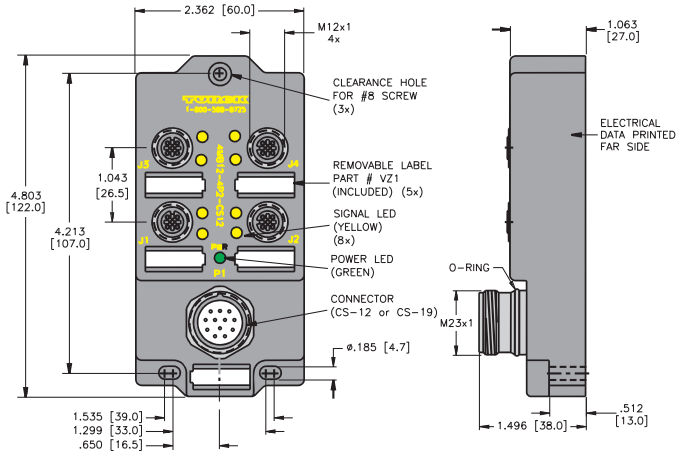
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Cable Length:	Standard length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

Dimensions

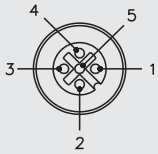
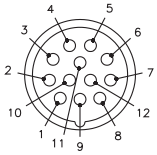
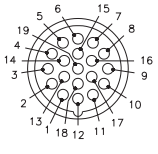
4-Port with Integral Cable



4-Port Quick Disconnect



Pinout

Female	Male	
		
5-Pin *eurofast*	**12-Pin *multifast***	**19-Pin *multifast***

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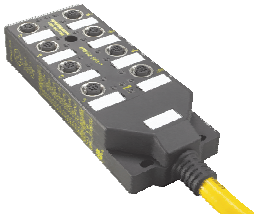


multibox® eurofast® 8-port Junction Boxes, Stainless Steel Connector Options

- **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 CSA Certified ***with PUR cable, add /S90*	Function / Color / Function / Color +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	8MBV12-4P2-*
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-* CSA Certified	Function / Pin / Color / Function / Pin / Color +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	8MBV12-4P2-CSV12

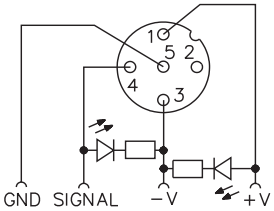
8-port, 2 Signal Per Port, 10-48 VDC

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 CSA Certified ***with PUR cable, add /S90*	Function / Color / Function / Color +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	8MBV12-5P3-*
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-* CSA Certified	Function / Pin / Color / Function / Pin / Color +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	8MBV12-5P3-CSV19

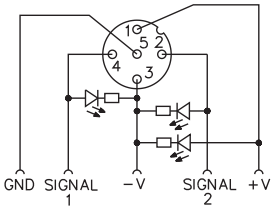
* Cable length in meters.

Functional Wiring Diagrams

(PNP LED Version)
1 Signal Per Port



(PNP LED Version)
2 Signals Per Port



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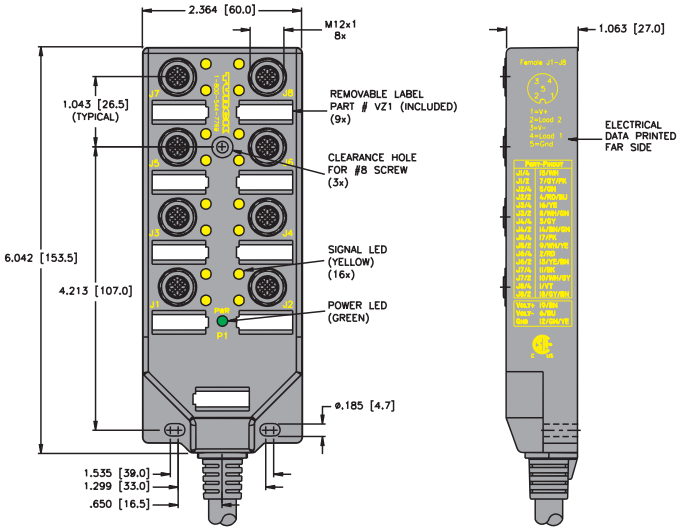
Specifications

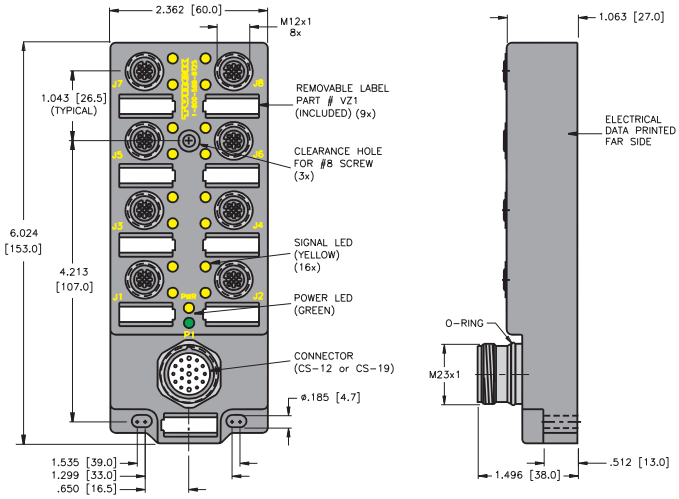
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and a VZ 1 label kit (8 labels), included
Cable Length:	Standard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

Dimensions

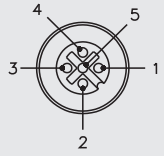
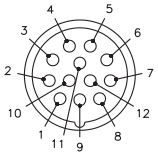
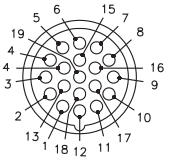
8-Port Integral Cable



8-Port Quick Disconnect



Pinout

Female	Male	Male
		
5-Pin *eurofast*	**12-Pin *multifast***	**19-Pin *multifast***

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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

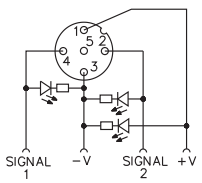
Application	Specifications	Pinout		Part Number - Nickel Plated	Part Number - Stainless Steel
8-port J-box 2 signals per port Back exit leads	4 A/port, 9 A total 5-pin ***eurofast*** connector, 1 (green) power LED 2 (yellow) signal per port LEDs, 3x18 AWG, 16x22 AWG	Function +V -V Ground Port 1, Sig 1 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	Pin/Color 19 / BN 6 / BU 12 / GN / YE 15 / WH 7 / GY / PK 5 / GN 4 / RD / BU 16 / YE 8 / WH / GN 3 / GY 14 / BN / GN 17 / PK 9 / WH / YE 2 / RD 13 / YE / BN 11 / BK 10 / WH / GY 1 / VT 18 / GY / BN	8MB12-5P3-*BL	8MBV12-5P3-*BL

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

Application	Specifications	Pinout		Part Number - Nickel Plated	Part Number - Stainless
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	Function +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	Pin/Color 19 / BN 6 / BU 12 / GN / YE 15 / WH 7 / GY / PK 5 / GN 4 / RD / BU 16 / YE 8 / WH / GN 3 / GY 14 / BN / GN 17 / PK 9 / WH / YE 2 / RD 13 / YE / BN 11 / BK 10 / WH / GY 1 / VT 18 / GY / BN	8MB12-5P3-*B	8MBV12-5P3-*B

* Cable length in meters.

(PNP LED Version)
2 Signals Per Port



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TURCK Junction Box Connectivity Products

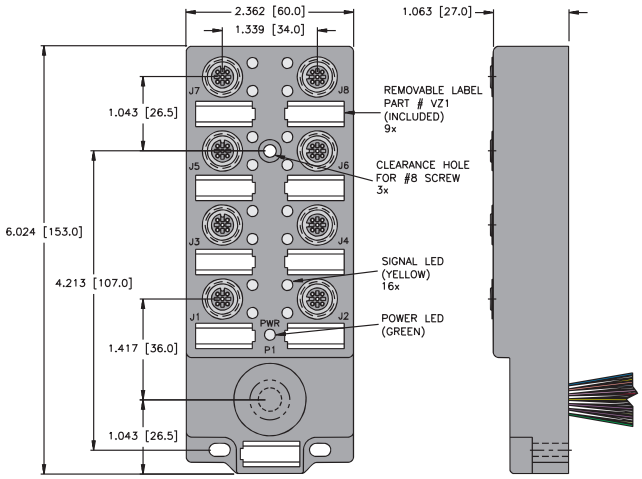
Industrial Automation

Specifications

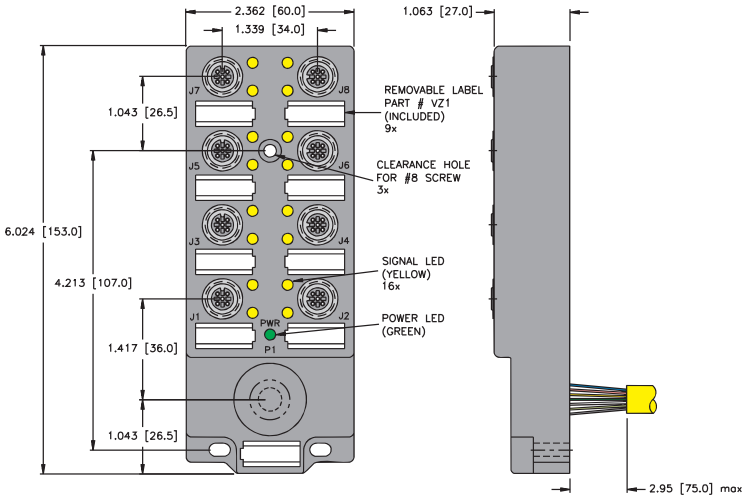
Housing:	Nylon
Connectors:	***eurofast*** ®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°C to +176°F)
Protection:	IP67
Accessories:	Includes (2) VZ 3 closure caps
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5
Recommended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

Dimensions

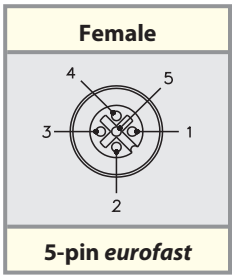
8MB12-5P3-*BL



8MB12-5P3-*B



Pinout



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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

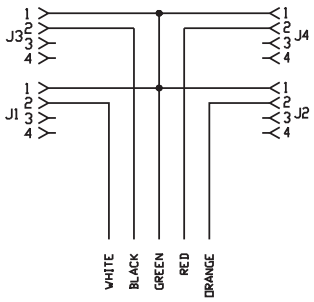
Application	Specifications	Pinout	Part Number
4-port J-box 1 circuit per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 5x22 AWG	Function / Color +V / GN Function / Color J1/Pin 2 / WH J2/Pin 2 / OG J3/Pin 2 / BK J4/Pin 2 / RD	VB 40N-*
4-port J-box 1 circuit per port ***eurofast*** connector	4 A/port, 4 A total 5-pin ***eurofast*** connector 5 conductors Mates with RKCN 5T-*	Function / Pin / Color +V / 1 / GN Function / Pin / Color J1/Pin 2 / 2 / WH J2/Pin 2 / 3 / OG J3/Pin 2 / 4 / BK J4/Pin 2 / 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	Function / Color J1/Pin 1 / WH J1/Pin 2 / BK J2/Pin 1 / GN J2/Pin 2 / RD Brown not used Function / Color J3/Pin 1 / OG J3/Pin 2 / BU J4/Pin 1 / YE J4/Pin 2 / VT	VB 4X1N-*
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-*	Function / Pin / Color J1/Pin 1 / 2 / WH J1/Pin 2 / 3 / BK J2/Pin 1 / 4 / GN J2/Pin 2 / 5 / RD Pin 1/BN not used Function / Pin / Color J3/Pin 1 / 6 / OG J3/Pin 2 / 7 / BU J4/Pin 1 / 8 / YE J4/Pin 2 / 9 / VT	VB 4X1N-CS12

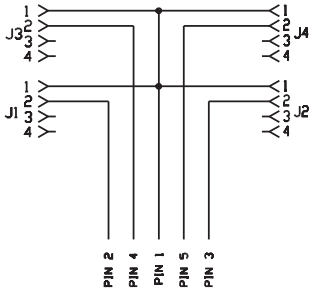
Functional Wiring Diagrams

(PNP LED Version)
1 Signal Per Port



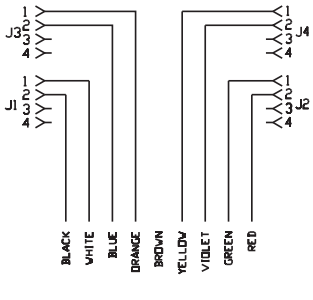
VB 40N-*

Common Positive
eurofast **Connector**



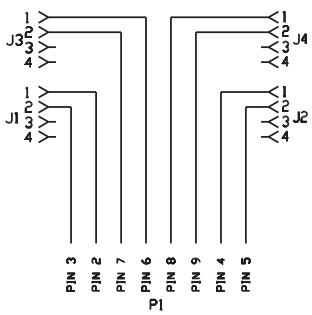
VB 40N-H1151

Isolated Circuit
Integral Cable



VB 4X1N-*

Isolated Circuit
multifast **Connector**



VB 4X1N-CS12

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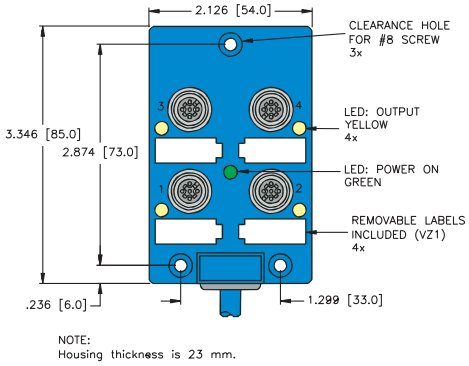
Specifications

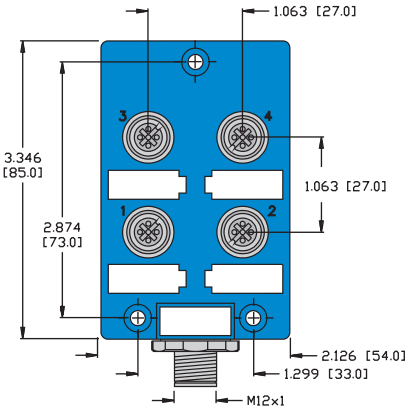
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass, machined from solid stock
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-40°C to +90°C (-40°F to +194°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels)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

Dimensions

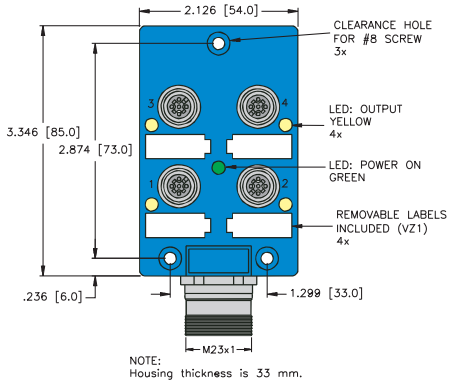
4-Port with Integral Home Run Cable



4-Port with *eurofast* Home Run Connector

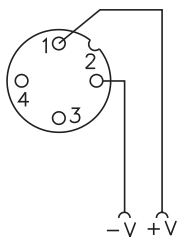


4-Port with *multifast* Home Run Connector

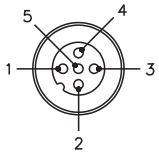
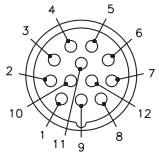


Notes:
Removable labels included (Part number VZ 1).
Clearance hole for #8 screw (3 places).
Housings with integral cable: 23.0 mm thickness. Housings with quick disconnect: 33.0 mm thickness.

Female Pinout Diagram



Pinout

Male	Male
	
5-Pin *eurofast*	**12-Pin *multifast***

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multibox® *eurofast*® Junction Boxes, NAMUR, 2 Circuits Per Port

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

2 Circuits Per Port, Common Positive, 100 VDC

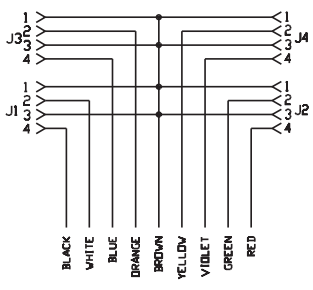
Application	Specifications	Pinout	Part Number
4-port J-box 2 circuits per port Integral cable	4 A/port, 9 A total Blue PVC cable, PLTC 9x22 AWG	Function / Color / Function / Color V+ / BN / J3/Pin 2 / OG J1/Pin 2 / WH / J3/Pin 4 / BU J1/Pin 4 / BK / J4/Pin 2 / YE J2/Pin 2 / GN / J4/Pin 4 / VT J2/Pin 4 / RD	VB 40.5N-*
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-*	Function / Pin / Color / Function / Pin / Color 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	VB 40.5N-CS12

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	Function / Color / Function / Color 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 J2/Pin 4 / YE / J4/Pin 4 / WH / BU	VB 4X1.5N-*
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-*	Function / Color / Function / Color 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	VB 4X1.5N-CS16

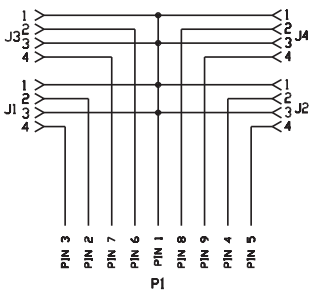
Functional Wiring Diagrams

Common Positive Integral Cable



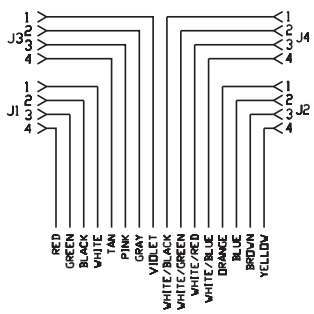
VB 40.5N-*

Common Positive *multifast* Connector



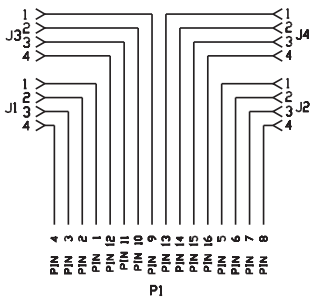
VB 40.5N-CS12

Isolated Circuit Integral Cable



VB 4X1.5N-*

Isolated Circuit *multifast* Connector



VB 4X1.5N-CS16

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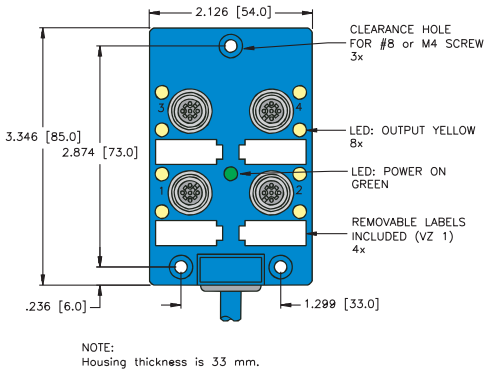
Specifications

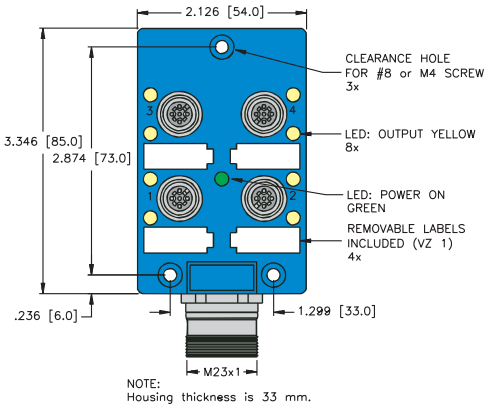
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass, machined from solid stock
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-40°C to +90°C (-40°F to +194°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps and one VZ 1 label kit (8 labels)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

Dimensions

4-Port with Integral Home Run Cable

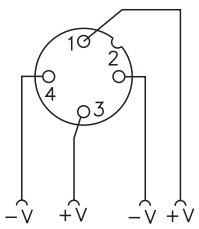


4-Port with *multifast* Home Run Connector

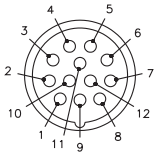
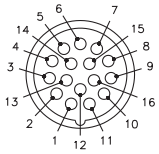


Notes:
Removable labels included (Part number VZ 1).
Clearance hole for #8 screw (3 places).
Housings with integral cable: 23.0 mm thickness. Housings with quick disconnect: 33.0 mm thickness.

Female Pinout Diagram



Pinout

Male	Male
	
12-Pin *multifast*	**16-Pin *multifast***

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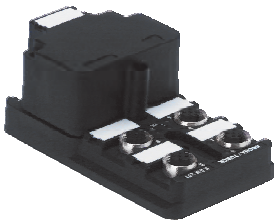


multibox® eurofast® Terminal Chamber, 2 Signals Per Port

- 4-Port, Plastic or Metal Housing
- Up to 12 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***

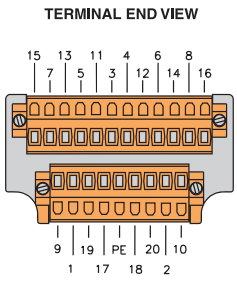
Application	Specifications	Pinout	Spring Clamp	Screw Terminals
4-port J-box 2 signals per port Jumper option for isolation between odd and even ports Terminal chamber connection - spring clamp or screw terminals	3 A/port, 10 A per power supply 12 A total 5-pin ***eurofast*** connector 2(green) power LED 2(yellow) signal per port LEDs cable diameter 5-12mm	Function / Terminal Pin 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	4MB12-5P4-K-FK	4MB12-5P4-K-SK

4-port, 10-30 VDC, 2 Signals Per Port, Shielded Metal Housing ***Termination Style***

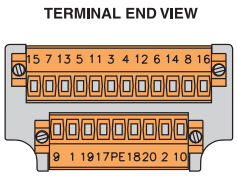
Application	Specifications	Pinout	Spring Clamp	Screw Terminals
4-port J-box 2 signals per port Termination chamber connection - spring clamp or screw terminals	3 A/port, 10 A total 5-pin ***eurofast*** connector 1(green) power LED cable diameter 9-14mm	Function / Terminal Pin Port 1/Signal 1 — 1 2/1 — 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	4MB12-5P1-MS-FK	4MB12-5P1-MS-SK

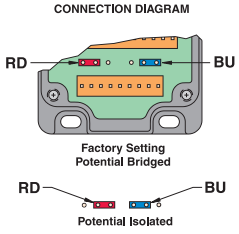
Functional Wiring Diagrams

Spring Clamp

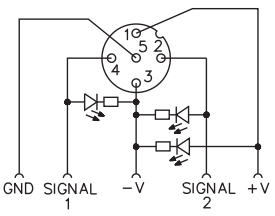


Screw Terminal





LED version 2 Signals Per Port



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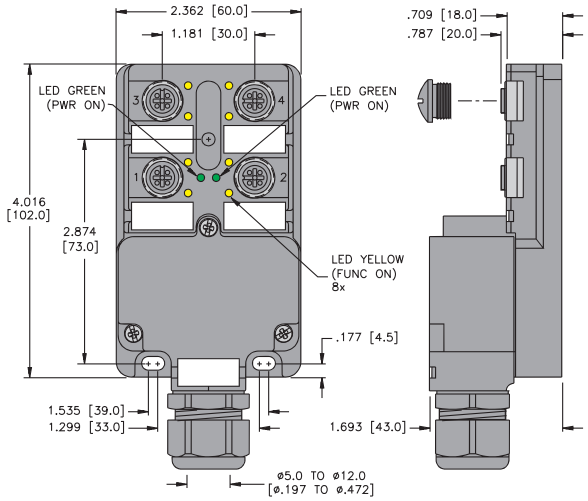
Specifications

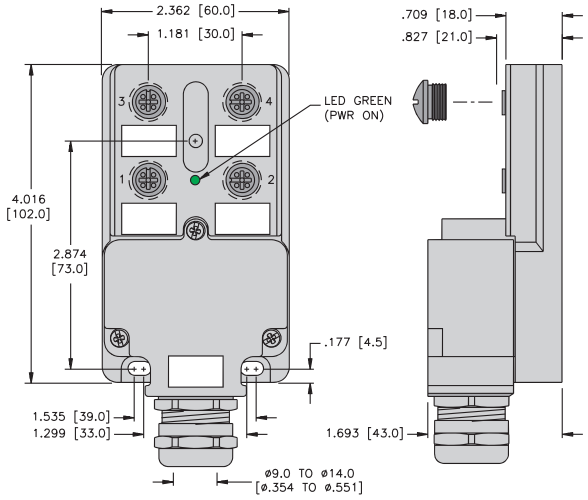
Housing:	PBT Black Plastic
Connectors:	***eurofast***®: PBT/black
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable Gland & OD:	PG 13.5, accepts cable diameter 5 to 12 mm
Temperature:	-20°C to +90°C (-4°F to +194°F)
Protection:	IEC IP68
Accessories:	(2) TC-CC closure caps and labels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

Dimensions

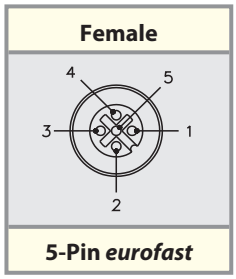
4-Port, Plastic Housing



4-Port, Metal Housing



Pinout



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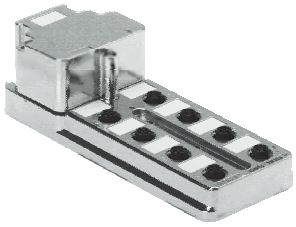


multibox® eurofast® Terminal Chamber, 2 Signals Per Port

- 8-Port Plastic or Metal Housing
- Up to 16 A Total
- Power Supply Isolation Option
- Plug in Terminal Cover - Spring Clamps or Screw Terminals

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	3 A/port, 10 A per power supply 16 A total 5-pin ***eurofast*** connector 2 (green) power LED 2 (yellow) signal per port LEDs cable diameter 5-12mm	Function / Terminal Pin / Function / Terminal Pin 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	8MB12-5P4-K-FK	8MB12-5P4-K-SK

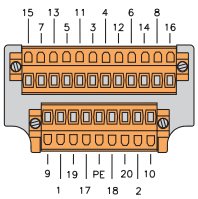
8-port, 10-30 VDC, 2 Signals Per Port, Shielded Metal

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	3 A/port 10 A total 5-pin ***eurofast*** connector 1 (green) power LED cable diameter 9-14mm	Function / Terminal Pin / Function / Terminal Pin 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	8MB12-5P1-MS-FK	8MB12-5P1-MS-SK

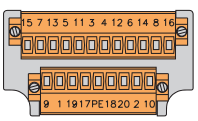
Spring Clamp

TERMINAL END VIEW

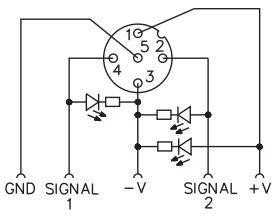


Screw Terminal

TERMINAL END VIEW



Functional Wiring Diagram
2 Signals Per Port



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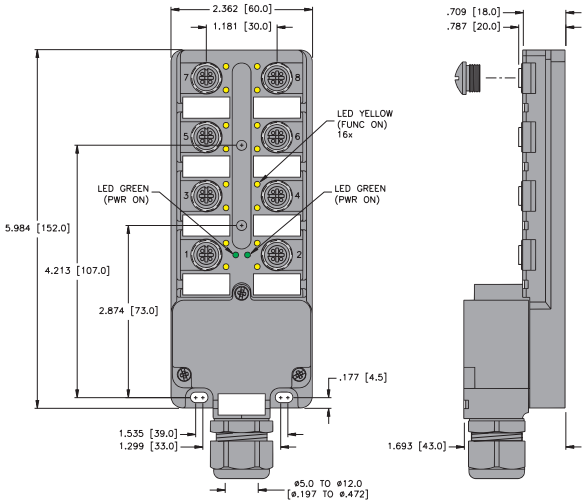
Specifications

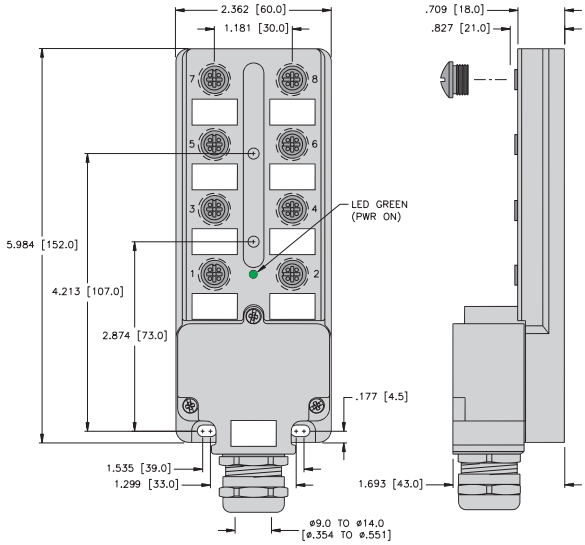
Housing:	Die Cast Zinc, Nickel plated
Connectors:	***eurofast***®: PBT/black
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable Gland & OD:	PG 13.5, accepts cable diameter 10-14 mm
Temperature:	-20°C to +90°C (-4°F to +194°F)
Protection:	IEC IP68
Accessories:	Includes (2) TC-CC closure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

Dimensions

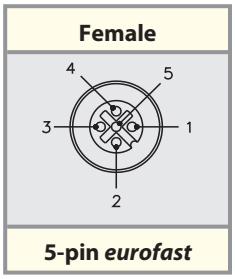
8-Port, Plastic Housing



8-Port, Metal Housing



Pinout



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multibox® *eurofast*® Junction Boxes, 4-Port

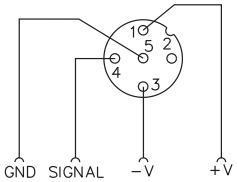
- **Single Input/Output Per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Available with or without LEDs**
- **M23 Quick Disconnect, *minifast* Connector, or Integral Home Run Cable**

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

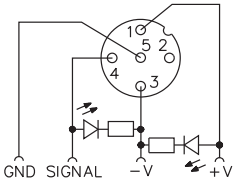
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
4-port J-box 1 signal per port Integral cable	4 A/port, 10 A total Yellow PVC cable** 7x18 AWG foil shield and 20 AWG drain ***with PUR cable, add /S90*	Function / Color: +V BN; -V BU; Gnd GN/YE Function / Color: Port 1 WH; Port 2 GN; Port 3 YE; Port 4 GY	VB 40-*	VB 40-P7X5-*	VB 40-N7X5-*
4-port J-box 1 signal per port ***multifast*** connector 7 conductors Mates with CKM 12-7-*	4 A/port, 7 A total 12-pin ***multifast*** connector	Function / Pin / Color: +V 1 / BN; -V 3 / BU; Gnd 12 / GN/YE Function / Pin / Color: Port 1 4 / WH; Port 2 6 / GN; Port 3 7 / YE; Port 4 8 / GY	VB 40-CS12	VB 40-P7X5-CS12	VB 40-N7X5-CS12
4-port J-box 1 signal per port, ***minifast*** connector	4 A/port 9 A total 6-pin ***minifast*** connector 6 conductors Mates with RKM 61-*M	Function / Pin /Color: +V 6 / BN; -V 3 /BU Function / Pin / Color: Port 1 2 / WH; Port 2 1 / GN; Port 3 5 / YE; Port 4 4 / GY	VB 40-B1161	VB 40-P7X5-B1161	VB 40-N7X5-B1161

Functional Wiring Diagrams

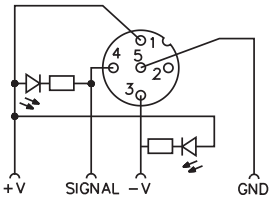
(No LED Version)
1 Signal Per Port



(PNP LED Version)
2 Signals Per Port



(NPN LED Version)
1 Signal Per Port



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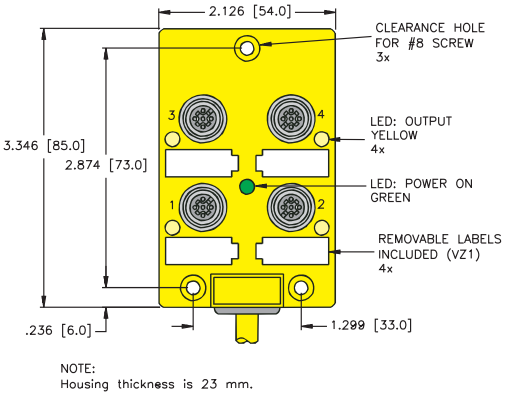
Specifications

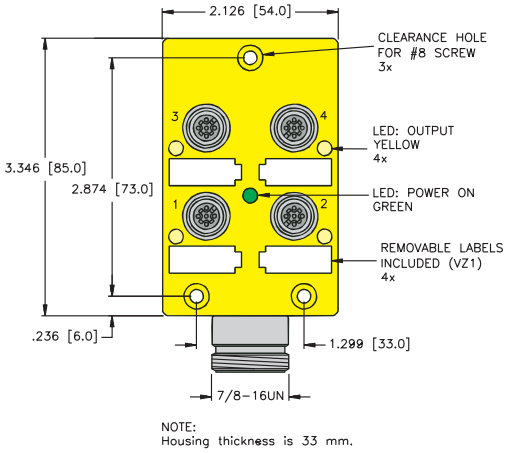
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless Steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	Includes (2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Cable Length:	Standard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

Dimensions

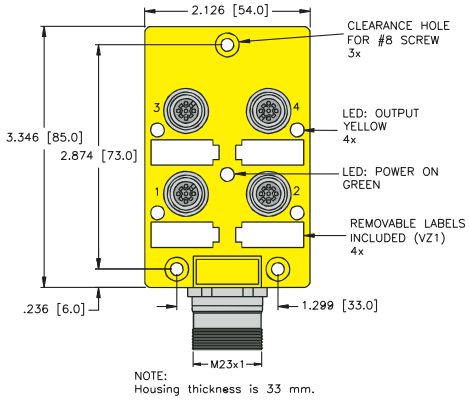
4-Port Integral Home Run Cable



4-Port with *minifast* Home Run Connector



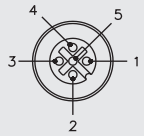
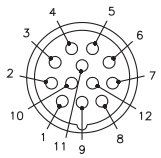
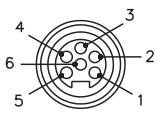
4-Port with *multifast* Home Run Connector



Notes:

1. For mating CKM cordsets. See ***multifast*** pages.
2. For mating RKM cordsets. See ***minifast*** pages.

Pinout

Female	Male	Male
		
5-pin *eurofast*	**12-pin *multifast***	**6-pin *minifast***

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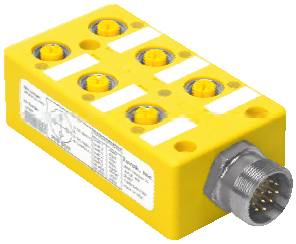


multibox® *eurofast*® Junction Boxes, 6-Port

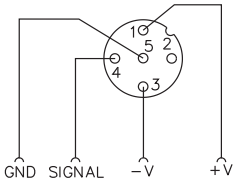
- **Single Input/Output Per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Available with or without LEDs**
- **M23 Quick Disconnect, *minifast* Connector or Integral Home Run Cable**

6-port, 1-Signal per Port, 10-48 VDC

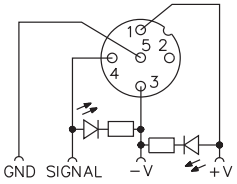
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
6-port J-box 1 signal per port Integral cable	4 A/port, 10 A total, Yellow PVC cable** 9x18 AWG foil shield and 20 AWG drain CSA Certified ***with PUR cable, add /S90*	Function / Color / Function / Color +V / BN / Port 3 / YE - V / BU / Port 4 / GY Gnd / GN/YE / Port 5 / PK Port 1 / WH / Port 6 / RD Port 2 / GN	VB 60-*	VB 60-P7X7-*	VB 60-N7X7-*
6-port J-box 1 signal per port ***multifast*** connector	4 A/port, 7 A total 12-pin ***multifast*** connector 9 conductors Mates with CKM 12-9-* CSA Certified	Function / Pin / Color / Function / Pin / Color +V / 1 / BN / Port 3 / 7 / YE - V / 3 / BU / Port 4 / 8 / GY Gnd / 12 / GN/YE / Port 5 / 9 / PK Port 1 / 4 / WH / Port 6 / 10 / RD Port 2 / 6 / GN	VB 60-CS12	VB 60-P7X7-CS12	VB 60-N7X7-CS12
6-port J-box 1 signal per port, ***minifast*** connector	4 A/port 7 A total 12-pin ***minifast*** connector 9 conductors Mates with RKM 126-*M	Function / Pin /Color / Function / Pin / Color +V / 10 / RD / Port 2 / 2 / BU -V / 11 / WH / Port 3 / 3 / WH/BK Ground / 12 / BK / Port 4 / 4 / RD/BK Port 1 / 1 / OG / Port 5 / 5 / GN/BK Port 6 / 6 / OG/BK	VB 60-RSF120	VB 60-P7X7-RSF120	VB 60-N7X7-RSF120

Functional Wiring Diagrams

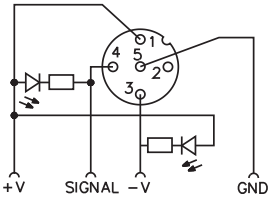
(No LED Version)
1 Signal Per Port



(PNP LED Version)
2 Signals Per Port



(NPN LED Version)
1 Signal Per Port



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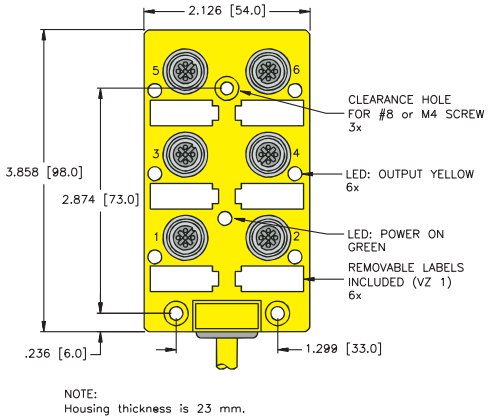
Specifications

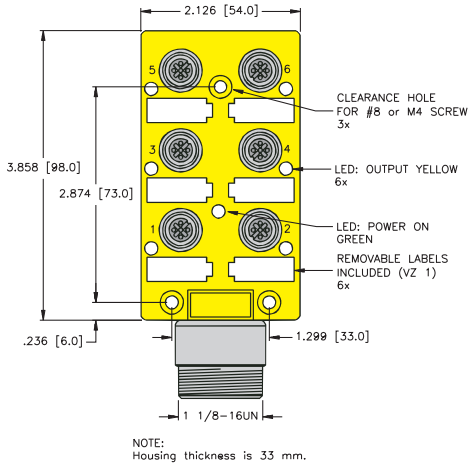
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless Steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	Includes (2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Cable Length:	Standard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

Dimensions

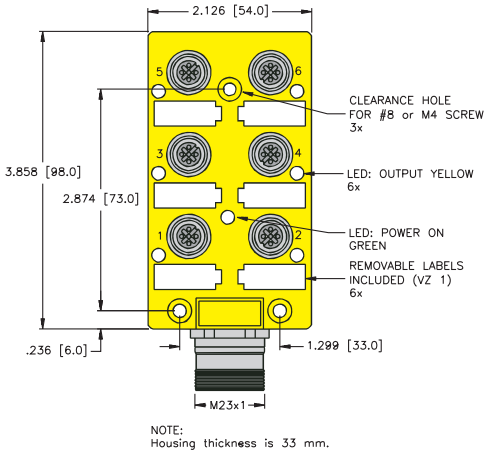
6-Port Integral Home Run Cable



6-Port with *minifast* Home Run Connector



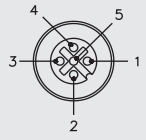
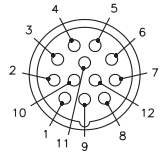
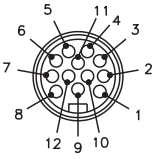
6-Port with *multifast* Home Run Connector



Notes:

1. For mating CKM cordsets. See ***multifast*** pages.
2. For mating RKM cordsets. See ***minifast*** pages.

Pinout

Female	Male	Male
		
5-pin *eurofast*	**12-pin *multifast***	**12-pin *minifast***

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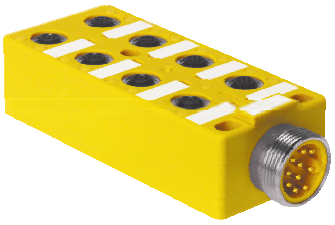


multibox® *eurofast*® Junction Boxes, 8-Port

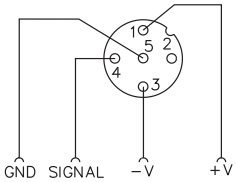
- **Single Input/Output Per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Available with or without LEDs**
- **M23 Quick Disconnect, *minifast* Connector, or Integral Home Run Cable**

8-port, 1-Signal Per Port, 10-48 VDC

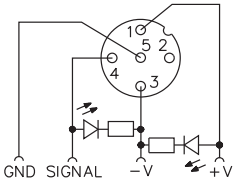
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
8-port J-box 1 signal per port Integral cable	4 A/port, 5 A total Yellow PVC cable** 11x18 AWG, foil shield and 20 AWG drain CSA Certified ***with PUR cable, add /S90*	Function / Color +V / BN - V / BU Gnd / GN/YE Port 1 / WH Port 2 / GN Port 3 / YE Port 4 / GY Port 5 / PK Port 6 / RD Port 7 / BK Port 8 / VT	VB 80-*	VB 80-P7X9-*	VB 80-N7X9-*
8-port J-box 1 signal per port ***multifast*** connector	4 A/port, 5 A total 12-pin ***multifast*** connector 11 conductors Mates with CKM 12-11-* CSA Certified	Function / Pin / Color +V / 1 / BN - V / 3 / BU Gnd / 12 / GN/YE Port 1 / 4 / WH Port 2 / 5 / GN Port 3 / 6 / YE Port 4 / 7 / GY Port 5 / 8 / PK Port 6 / 9 / RD Port 7 / 10 / BK Port 8 / 11 / VT	VB 80-CS12	VB 80-P7X9-CS12	VB 80-N7X9-CS12
8-port J-box 1 signal per port, ***minifast*** connector	4 A/port 5 A total 12-pin ***minifast*** connector 11 conductors Mates with RKM 126-*	Function / Pin / Color +V / 10 / RD -V / 11 / WH Ground / 12 / BK Port 1 / 1 / OG Port 2 / 2 / BU Port 3 / 3 / WH/BK Port 4 / 4 / RD/BK Port 5 / 5 / GN/BK Port 6 / 6 / OG/BK Port 7 / 7 / BU/BK Port 8 / 8 / BK/WH	VB 80-RSF120	VB 80-P7X9-RSF120	VB 80-N7X9-RSF120

Functional Wiring Diagrams

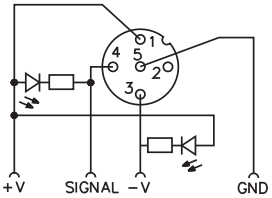
(No LED Version)
1 Signal Per Port



(PNP LED Version)
2 Signals Per Port



(NPN LED Version)
1 Signal Per Port



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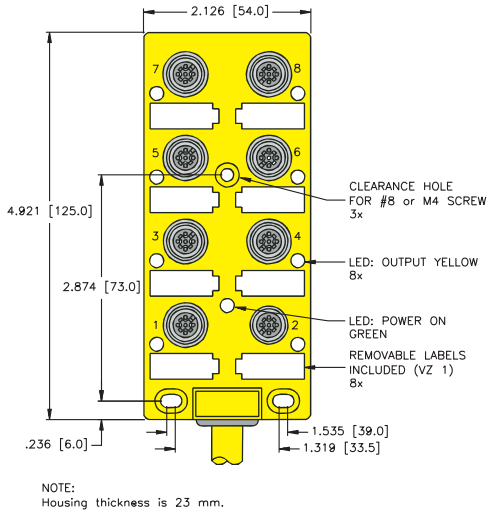
Specifications

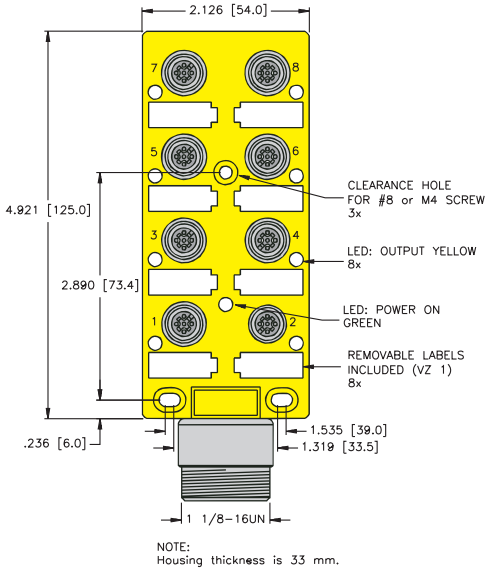
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless Steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP 67
Accessories:	Includes (2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Cable Length:	Standard length is nominal 5 meters. Other lengths available upon request - Consult factory

Dimensions

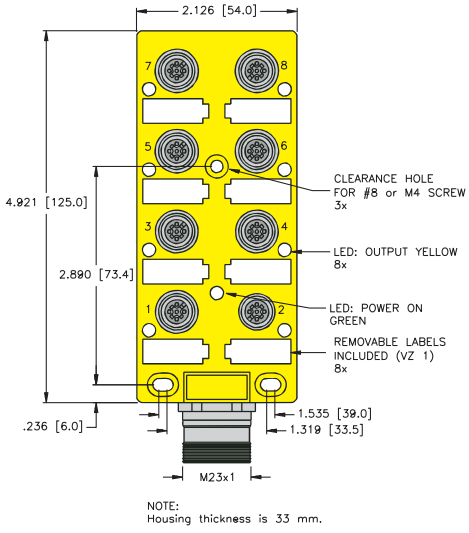
8-Port Integral Home Run Cable



8-Port with *minifast* Home Run Connector



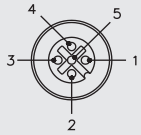
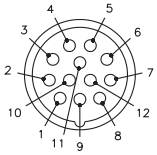
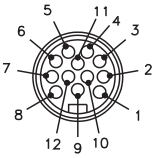
8-Port with *multifast* Home Run Connector



Notes:

1. For mating CKM cordsets. See ***multifast*** pages.
2. For mating RKM cordsets. See ***minifast*** pages.

Pinout

Female	Male	Male
		
5-pin *eurofast*	**12-pin *multifast***	**12-pin *minifast***

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multibox® eurofast® Junction Boxes, 4-Port

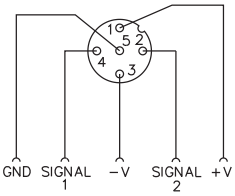
- **Dual Input/Output Per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**

4-port, 2-Signals per Port, 10-48 VDC

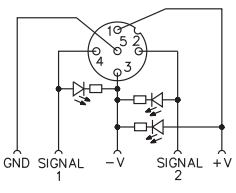
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
4-port J-box 2 signals per port Integral cable	3 A/port, 9 A total Yellow PVC cable** 3x18 AWG, 8x22 AWG, foil shield and 22 AWG drain ***with PUR cable, add /S90*	Function / Color +V / BN - V / BU Gnd / GN/YE Port 1, Sig 1 / WH Port 1, Sig 2 / GY/PK Port 2, Sig 1 / GN Port 2, Sig 2 / RD/BU Port 3, Sig 1 / YE Port 3, Sig 2 / WH/GN Port 4, Sig 1 / GY Port 4, Sig 2 / BN/GN	VB 40.5-*	VB 40.5-P7X9-*	VB 40.5-N7X9-*
4-port J-box 2 signals per port ***multifast*** connector	3 A/port, 9 A total 19-pin ***multifast*** connector 11 conductors Mates with CKM 19-11-*	Function / Pin / Color +V / 19 / BN - V / 6 / BU Gnd / 12 / GN/YE Port 1, Sig 1 / 15 / WH Port 1, Sig 2 / 7 / GY/PK Port 2, Sig 1 / 5 / GN Port 2, Sig 2 / 4 / RD/BU Port 3, Sig 1 / 16 / YE Port 3, Sig 2 / 8 / WH/GN Port 4, Sig 1 / 3 / GY Port 4, Sig 2 / 14 / BN/GN	VB 40.5-CS19	VB 40.5-P7X9-CS19	VB 40.5-N7X9-CS19

Functional Wiring Diagrams

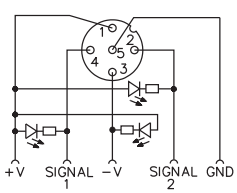
(No LED Version)
2 Signals Per Port



(PNP LED Version)
2 Signals Per Port



(NPN LED Version)
2 Signals Per Port



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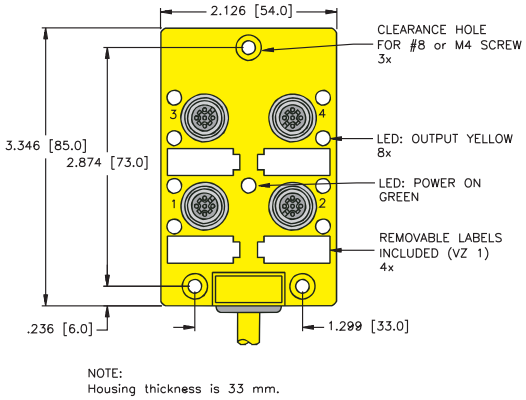
Specifications

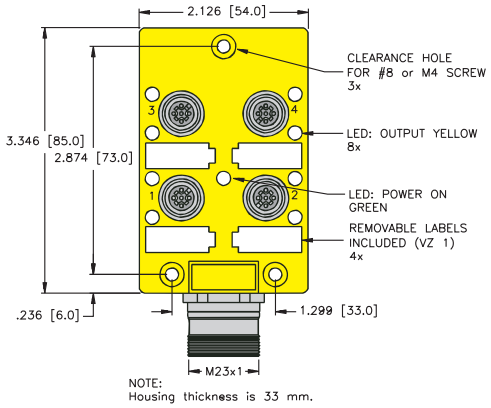
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless Steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	Includes (2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included.
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5/S1063

Dimensions

4-Port with Integral Home Run Cable



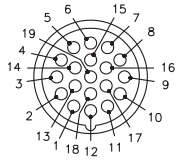
4-Port with *multifast* Home Run Connector



Notes:

1. For mating CKM cordsets. See ***multifast*** pages.

Pinout

Female	Male
	
5-pin *eurofast*	**19-pin *multifast***

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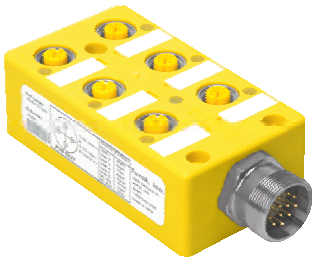


multibox® eurofast® Junction Boxes, 6-Port

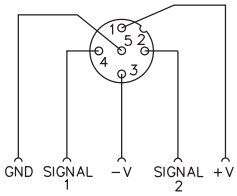
- **Dual Input/Output Per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**

6-port, 2-Signals per Port, 10-48 VDC

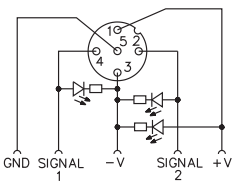
Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
6-port J-box 2 signals per port Integral cable	3 A/port, 9 A total Yellow PVC cable** 3x18 AWG, 12x22 AWG, foil shield and 22 AWG drain **with PUR cable add /S90	Function / Color / Function / Color +V / BN / Port 3, Sig 1 / YE - V / BU / Port 3, Sig 2 / WH/GN Gnd / GN/YE / Port 4, Sig 1 / GY Port 1, Sig 1 / WH / Port 4, Sig 2 / BN/GN Port 1, Sig 2 / GY/PK / Port 5, Sig 1 / PK Port 2, Sig 1 / GN / Port 5, Sig 2 / WH/YE Port 2, Sig 2 / RD/BU / Port 6, Sig 1 / RD Port 6, Sig 2 / YE/BN	VB 60.5-*	VB 60.5-P7X13-*	VB 60.5-N7X13-*
6-port J-box 2 signal per port ***multifast*** connector	10-48 VDC 3 A/port, 9 A total 19-pin ***multifast*** connector 15 conductors Mates with CKM 19-15-*	Function / Pin / Color / Function / Pin / Color +V / 19 / BN / Port 3, Sig 1 / 16 / YE - V / 6 / BU / Port 3, Sig 2 / 8 / WH/GN Gnd / 12 / GN/YE / Port 4, Sig 1 / 3 / GY Port 1, Sig 1 / 15 / WH / Port 4, Sig 2 / 14 / BN/GN Port 1, Sig 2 / 7 / GY/PK / Port 5, Sig 1 / 17 / PK Port 2, Sig 1 / 5 / GN / Port 5, Sig 2 / 9 / WH/YE Port 2, Sig 2 / 4 / RD/BU / Port 6, Sig 1 / 2 / RD Port 6, Sig 2 / 13 / YE/BN	VB 60.5-CS19	VB 60.5-P7X13-CS19	VB 60.5-N7X13-CS19

Functional Wiring Diagrams

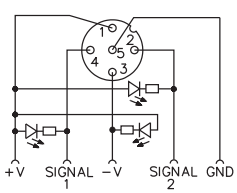
(No LED Version)
2 Signals Per Port



(PNP LED Version)
2 Signals Per Port



(NPN LED Version)
2 Signals Per Port



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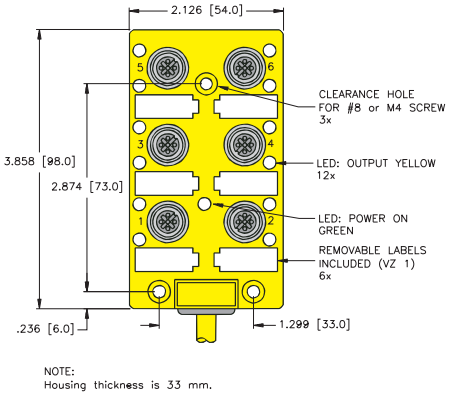
Specifications

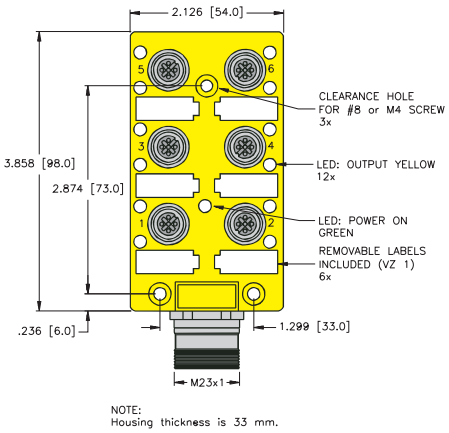
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless Steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	Includes (2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5/S1063

Dimensions

6-Port Integral Home Run Cable



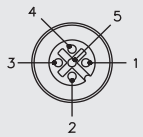
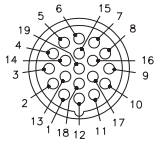
6-Port with *multifast* Home Run Connector



Notes:

1. For mating CKM cordsets. See ***multifast*** pages.

Pinout

Female	Male
	
5-pin *eurofast*	**19-pin *multifast***

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multibox® eurofast® Junction Boxes, 8-Port

- **Dual Input/Output Per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Available with or without LEDs**
- **M23 Quick Disconnect or Integral Home Run Cable**

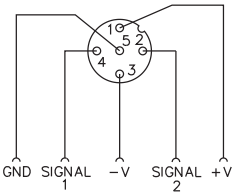
8-port, 2-Signals per Port, 10-48 VDC

Application	Specifications	Pinout	No LEDs	PNP LED	NPN LED
8-port J-box 2 signals per port Integral cable	3 A/port, 8 A total Yellow PVC cable** 3x18 AWG, 16x22 AWG, foil shield and 22 AWG drain ***with PUR cable, add /S90*	Function / Color / Function / Color +V / BN / Port 4, Sig 1 / GY - V / BU / Port 4, Sig 2 / BN/GN Gnd / 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	VB 80.5-*	VB 80.5-P7X17-*	VB 80.5-N7X17-*
8-port J-box 2 signal per port ***multifast*** connector	3 A/port, 8 A total 19-pin ***multifast*** connector 19 conductors Mates with CKM 19-19-*	Function / Pin / Color / Function / Pin / Color +V / 19 / BN / Port 4, Sig 1 / 3 / GY - V / 6 / BU / Port 4, Sig 2 / 14 / BN/GN Gnd / 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	VB 80.5-CS19	VB 80.5-P7X17-CS19	VB 80.5-N7X17-CS19

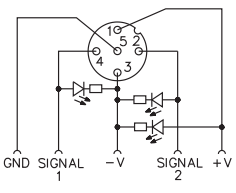
* Cable length in meters.

Functional Wiring Diagrams

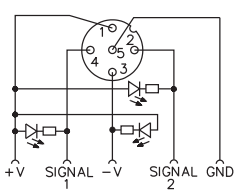
(No LED Version)
2 Signals Per Port



(PNP LED Version)
2 Signals Per Port



(NPN LED Version)
2 Signals Per Port



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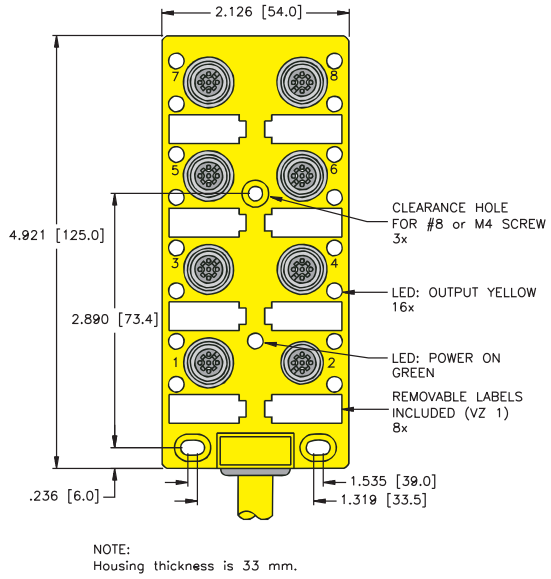
Specifications

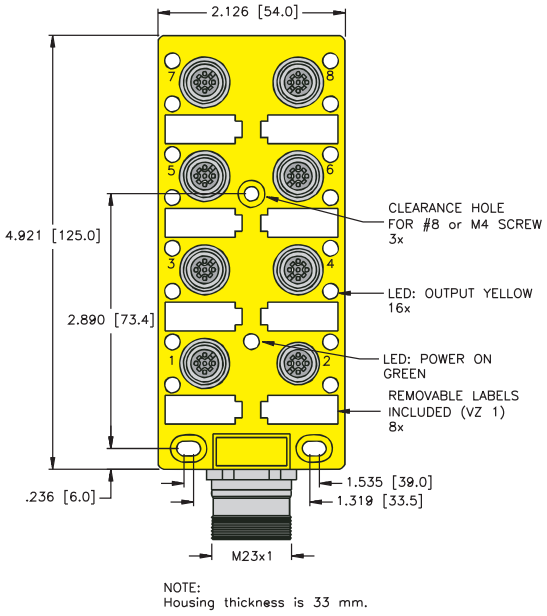
Housing:	Nylon
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Stainless Steel
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	Includes (2) VZ 3 closure caps and a VZ 1 label kit (8 labels) included
Recommended Splitter:	YB2-FSM 4.5-2 FKM 4.5/S1063

Dimensions

8-Port Integral Home Run Cable



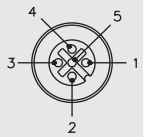
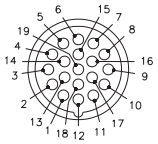
8-Port with *multifast* Home Run Connector



Notes:

1. For mating CKM cordsets. See ***multifast*** pages.

Pinout

Female	Male
	
5-pin *eurofast*	**19-pin *multifast***

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multibox® *eurofast*® Junction Boxes, 4-Port, Metal

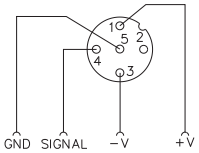
- **Single Input/Output Per Port**
- **Metal Housing with Side Connectors**
- **For DC Sensors and Actuators**
- **M23 Quick Disconnect, *minifast* Connector, or Integral Home run Cable**
- **Available with or without LEDs**

4-port, 1 Signal Per Port, 10-48 VDC

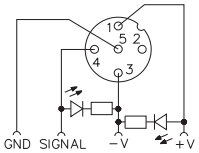
Application	Specifications	Pinout	No LEDs	PNP LEDs
4-port J-box 1 signal per port Metal box Integral cable	4 A/port, 10 A total Yellow PVC cable 7x18 AWG foil shield and 20 AWG drain	Function / Color: +V BN; - V BU; Ground GN / YE Function / Color: Port 1 Wh; Port 2 GN; Port 3 YE; Port 4 GY	VBM 40-*	VBM 40-P7X5-*
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-*	Function / Pin / Color: +V 1 / BN; - V 3 / BU; Ground 12 / GN/YE Function / Pin / Color: Port 1 4 / WH; Port 2 6 / GN; Port 3 7 / YE; Port 4 8 / GY	VBM 40-CS12	VBM 40-P7X5-CS12
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	Function / Pin/Color: +V 10 / RD; -V 11 / WH; Ground 12 / BK; Port 1 1 / OG; Port 2 2 / BU Function / Pin/Color: Port 3 3 /WH/BK; Port 4 4 / RD/BK	VBM 40-RSF120	VBM 40-P7X5-RSF120

Functional Wiring Diagrams

(No LED Version)
1 Signal Per Port



(PNP LED Version)
1 Signal Per Port



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TURCK Junction Box Connectivity Products

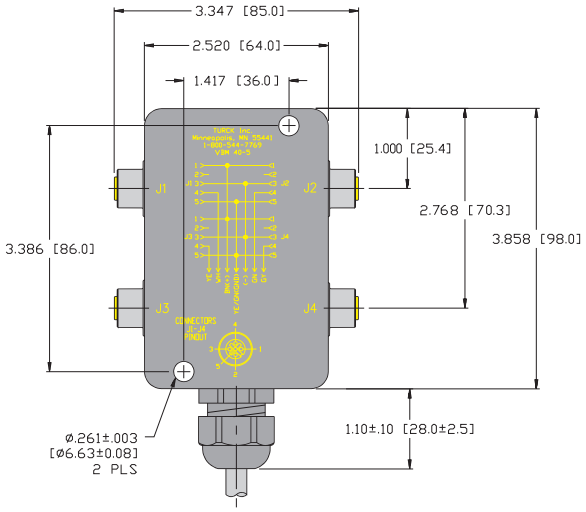
TURCK works Industrial Automation

Specifications

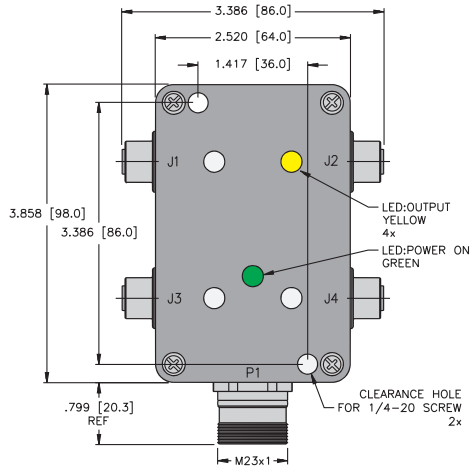
Housing:	Die-cast aluminum alloy
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps included
Cable Length:	Standard length for junction boxes and ***multifast***® series quick disconnect cordsets is nominal 5 meters Other lengths available by request. Consult factory

Dimensions

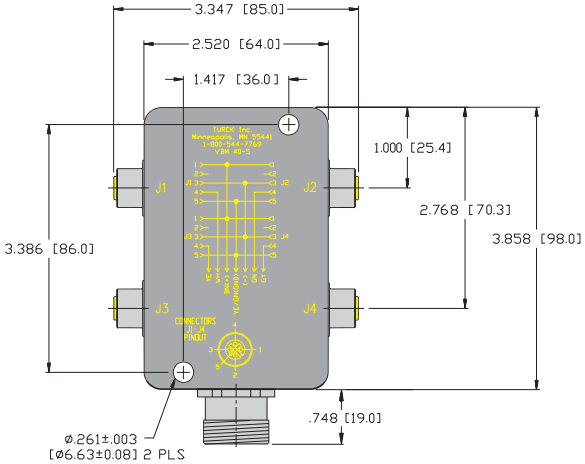
4-Port with Integral Home Run Cable



4-Port with *multifast* Home Run Connector

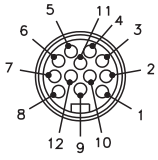
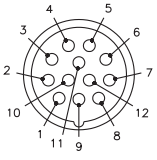


4-Port with *minifast* Home Run Connector



Notes:
1. For mating CKM cordsets. See ***multifast*** pages.
2. For mating RKM cordsets. See ***minifast*** pages.

Pinout

Female	Male	Male
		
5-pin *eurofast*	**12-pin *minifast***	**12-pin *multifast***

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multibox® *eurofast*® Junction Boxes, 8-Port, Metal

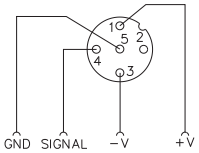
- **Single Input/Output Per Port**
- **Metal Housing with Side Connectors**
- **For DC Sensors and Actuators**
- **M23 Quick Disconnect, *minifast* Connector, or Integral Home run Cable**
- **Available with or without LEDs**

8-port, 1 Signal Per Port, 10-48 VDC

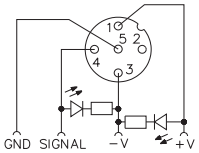
Application	Specifications	Pinout	No LEDs	PNP LEDs
8-port J-box 1 signal per port Metal box Integral cable	4 A/port, 10 A total Yellow PVC cable 11x18 AWG, foil shield and 20 AWG drain	Function / Color: +V BN; -V BU; Ground GN / YE; Port 1 WH; Port 2 GN; Port 3 YE; Port 4 GY; Port 5 PK; Port 6 RD; Port 7 BK; Port 8 VT	VBM 80-*	VBM 80-P7X9-*
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-*	Function / Pin / Color: +V 1 / BN; -V 3 / BU; Ground 12 / GN/YE; Port 1 4 / WH; Port 2 5 / GN; Port 3 6 / YE; Port 4 7 / GY; Port 5 8 / PK; Port 6 9 / RD; Port 7 10 / BK; Port 8 11 / VT	VBM 80-CS12	VBM 80-P7X9-CS12
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	Function / Pin/Color: +V 10 / RD; -V 11 / WH; Ground 12 / BK; Port 1 1 / OG; Port 2 2 / BU; Port 3 3 / WH/BK; Port 4 4 / RD/BK; Port 5 5 / GN/BK; Port 6 6 / OG/BK; Port 7 7 / BU/BK; Port 8 8 / BK/WH	VBM 80-RSF120	VBM 80-P7X9-RSF120

Functional Wiring Diagrams

(No LED Version)
1 Signal Per Port



(PNP LED Version)
1 Signal Per Port



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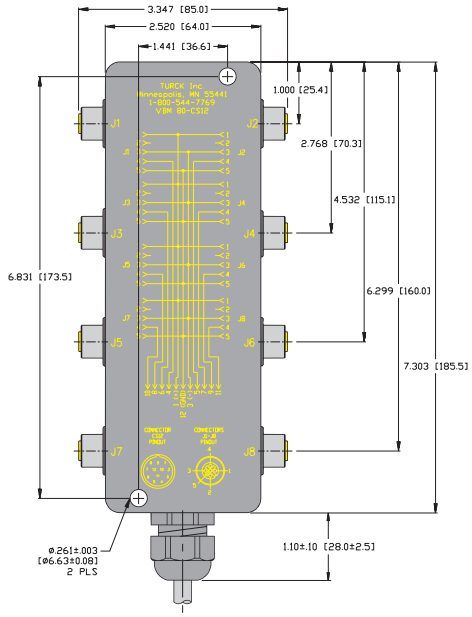
Specifications

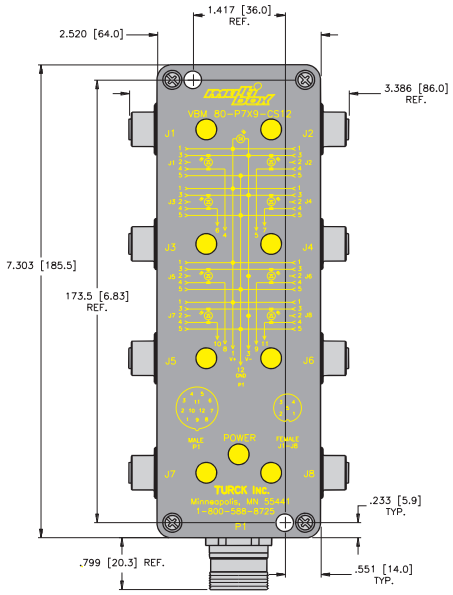
Housing:	Die-cast aluminum alloy
Connectors:	***eurofast***®: Nylon or TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	(2) VZ 3 closure caps included
Cable Length:	Standard length for junction boxes and ***multifast***® series quick disconnect cordsets is nominal 5 meters Other lengths available by request. Consult factory

Dimensions

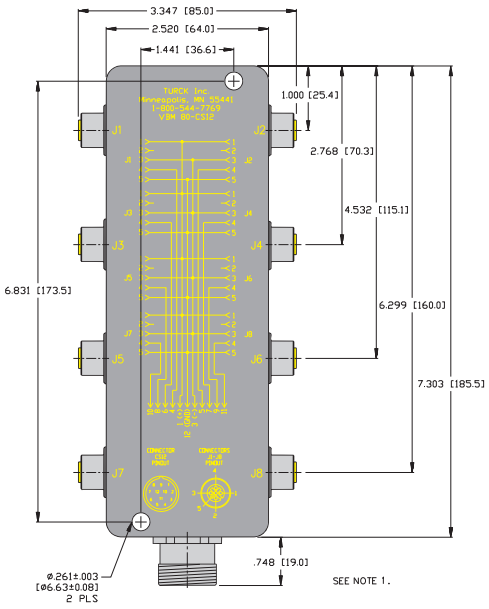
8-Port with Integral Home Run Cable



8-Port with *multifast* Home Run Connector

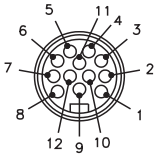
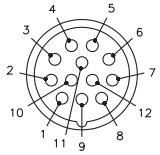


8-Port with *minifast* Home Run Connector



Notes:
1. For mating CKM cordsets. See ***multifast*** pages.
2. For mating RKM cordsets. See ***minifast*** pages.

Pinout

Female	Male	Male
		
5-pin *eurofast*	**12-pin *minifast***	**12-pin *multifast***

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multibox® eurofast® Junction Box, 16-port

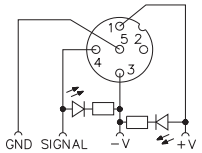
- **Single Input/ Output per Port**
- **Rugged Plastic Housing with Flush Connectors**
- **Quick Disconnect**
- **Available with LEDs**

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	Function / Pin / Color: +V 19 / BN; -V 6 / BU; Ground 12 / GN / YE; Port 1 15 / WH; Port 2 7 / GY / PK; Port 3 5 / GN; Port 4 4 / RD / BU; Port 5 16 / YE; Port 6 8 / WH / GN; Port 7 3 / GY; Port 8 14 / BN / GN; Port 9 17 / PK; Port 10 9 / WH / YE; Port 11 2 / RD; Port 12 13 / YE / BN; Port 13 11 / BK; Port 14 10 / WH / GY; Port 15 1 / VT; Port 16 18 / GY / BN	16MB12-4P2-CS19

Functional Wiring Diagram

(PNP LED Version)
1 Signal Per Port



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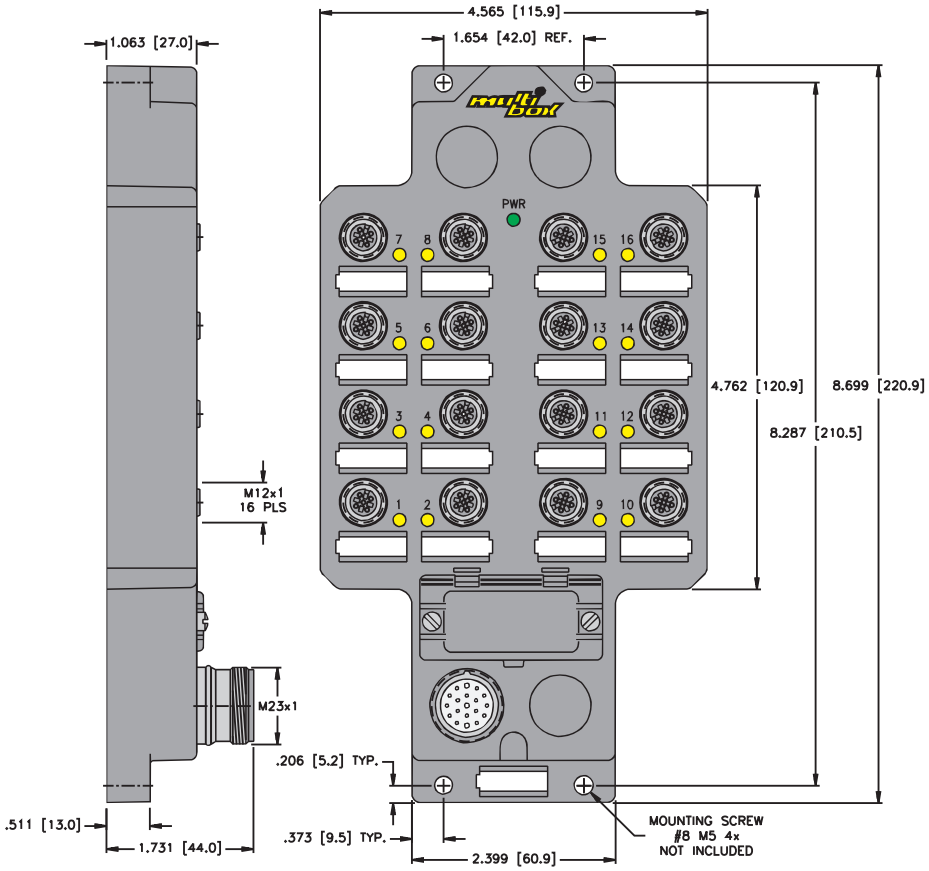
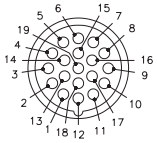
Specifications

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

Dimensions



Pinout

Female	Male
	
5-pin *eurofast*	**19-pin *multifast***

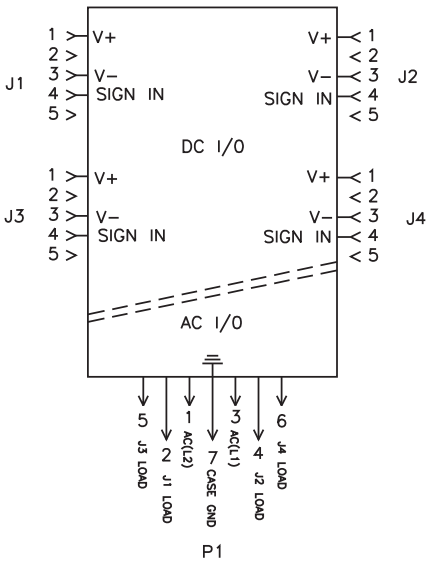
multibox® eurofast® AC/DC Junction Box, 4-Port

- 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 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	VBM-AC/DC/AC-RSM 70/ADAPTER BOX

Functional Wiring Diagram



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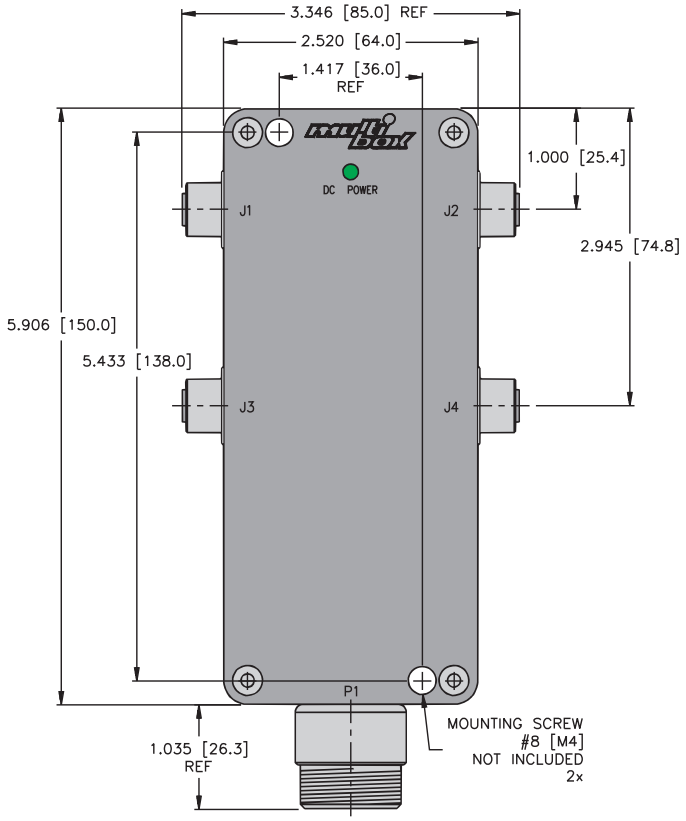
Specifications

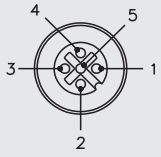
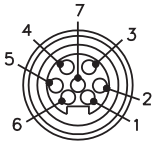
Housing:	Die cast aluminum alloy
Contact Carrier:	***eurofast*** ®: Nylon or TPU. ***minifast*** ®: TPU
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Temperature:	-30°C to +70°C (-22°C to +158°F)
Protection:	IEC IP67
Accessories:	VZ 3 Closure Caps (2 included)

Dimensions

4-Port



Pinout

Female	Male
	
5-pin *eurofast*	**7-pin *minifast***

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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, 10-48 VDC

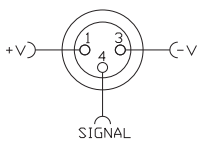
Application	Specifications	Pinout	No LEDs	PNP LED
4-port J-box Snap lock connectors Top Integral cable	3 A/port, 3 A total Black PVC 6x24 AWG	Function / Color +V BN - V BU Port 1 WH Port 2 GN Port 3 YE Port 4 GY	VB 403Z-*	VB 403Z-PX5-*
4-port J-box 1 signal per port Snap lock connectors Side Integral cable	3 A/port 4 A total Black PVC cable 6x24 AWG		VB 403Z-*C	VB 403Z-PX5-*C
4-port J-box Snap lock connectors ***eurofast*** connector	3 A/port, 3 A total 8-pin ***eurofast*** connector 6 conductors mates with RKC 8.6T-*	Function / Pin +V 5 - V 7 Port 1 1 Port 2 2 Port 3 3 Port 4 4	VB 403Z-FS 8	VB 403Z-PX5-FS 8

4-port, Threaded, 10-48 VDC

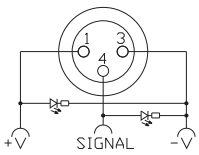
Application	Specifications	Pinout	No LEDs	PNP LED
4-port J-box Threaded connectors Top Integral connector	3 A/port, 3 A total Black PVC 6x24 AWG	Function / Color +V BN - V BU Port 1 WH Port 2 GN Port 3 YE Port 4 GY	VB 403M-*	VB 403M-PX5-*
4-port J-box 1 signal per port Threaded conductors Side Integral cable	3 A/port 4 A total Black PVC cable 6x24 AWG		VB 403M-*C	VB 403M-PX5-*C
4-port J-box Threaded connectors ***eurofast*** connector	3 A/port, 3 A total 8-pin ***eurofast*** connector 6 conductors mates with RKC 8.6T-*	Function / Pin +V 5 - V 7 Port 1 1 Port 2 2 Port 3 3 Port 4 4	VB 403M-FS 8	VB 403M-PX5-FS 8

Functional Wiring Diagrams

No LED Version



LED Version



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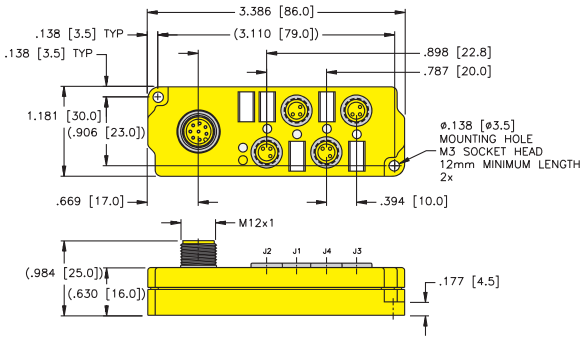
Specifications

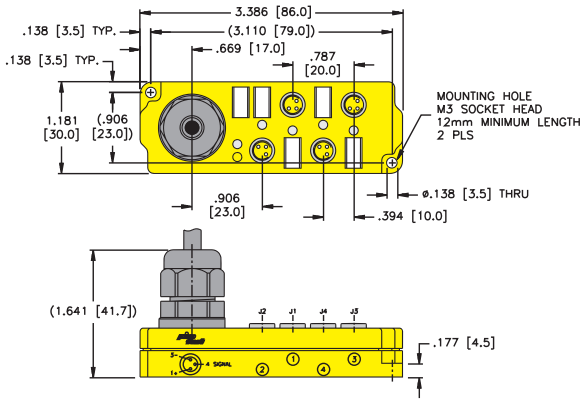
Housing:	Nylon
Connectors:	TPU (***picofast***®); nylon or TPU (***eurofast***®); PETP (M16)
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection Class:	IEC IP67
Accessories:	KS 5/10 labels, 2 pieces PSG-CC (snap lock) or PSGM-CC (threaded) included
Cable length:	Standard length is nominal 5 meters Other lengths available by request - Consult factory

Dimensions

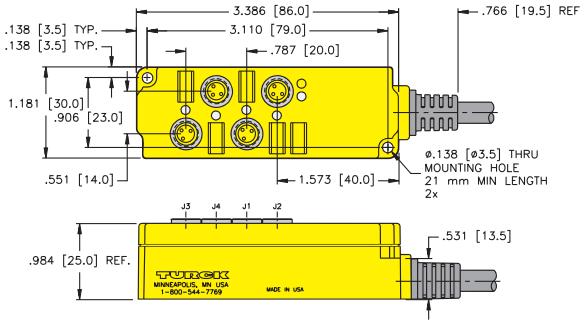
4-Port with *eurofast* Home Run Connector



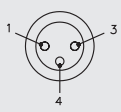
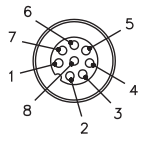
4-Port with Integral Home Run Cable



4-Port with Side Integral Home Run Cable



Pinout

Female	Male
	
3-pin *picofast*	**8-pin *eurofast***

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multibox® picofast® Junction Boxes, 8-port, 3-Pin

- **Snap Lock or Threaded Connectors**
- **Available with or without LEDs**
- **M16 Quick Disconnect or Integral Home Run Cable**

8-port, Snap Lock, 10-48 VDC

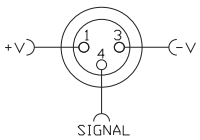
Application	Specifications	Pinout	No LEDs	PNP LED
8-port j-box Snap lock connectors Top Integral cable	3 A/port, 3 A total Black PVC cable 10x24 AWG	Function / Color / Function / Color +V BN Port 4 GY -V BU Port 5 PK Port 1 WH Port 6 RD Port 2 GN Port 7 BK Port 3 YE Port 8 VT	VB 803Z-*	VB 803Z-PX9-*
8-port J-box 1 signal per port Snap lock connectors Side Integral cable	3 A/port, 4 A total Black PVC cable 10x24 AWG		VB 803Z-*C	VB 803Z-PX9*C
8-port J-box, Snap lock connectors M16 connector	3 A/port, 3 A total 14 pin M16 connector 10 conductors mates with BKM 14-836-*	Function / Pin/Color / Function / Pin/Color +V M/BN Port 4 C/GY -V U/BU Port 5 N/PK Port 1 P/WH Port 6 R/RD Port 2 E/GN Port 7 G/BK Port 3 O/YE Port 8 S/VT	VB 803Z-BS14	VB 803Z-PX9-BS14

8-port, Threaded, 10-48 VDC

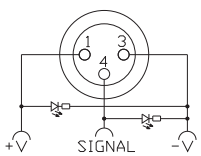
Application	Specifications	Pinout	No LEDs	PNP LED
8-port j-box Threaded connectors Top Integral cable	3 A/port, 3 A total Black PVC cable 10x24 AWG	Function / Color / Function / Color +V BN Port 4 GY -V BU Port 5 PK Port 1 WH Port 6 RD Port 2 GN Port 7 BK Port 3 YE Port 8 VT	VB 803M-*	VB 803M-PX9-*
8-port J-box 1 signal per port Threaded connectors Side Integral cable	3 A/port, 4 A total Black PVC cable 10x24 AWG		VB 803M-*C	VB 803M-PX9-*C
8-port J-box, Threaded connectors M16 connector	3 A/port, 3 A total 14 pin M16 connector 10 conductors mates with BKM 14-836-*	Function / Pin/Color / Function / Pin/Color +V M/BN Port 4 C/GY -V U/BU Port 5 N/PK Port 1 P/WH Port 6 R/RD Port 2 E/GN Port 7 G/BK Port 3 O/YE Port 8 S/VT	VB 803M-BS14	VB 803M-PX9-BS14

Functional Wiring Diagrams

No LED Version



LED Version



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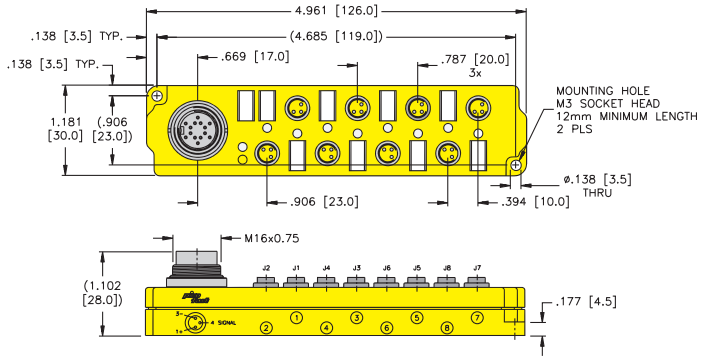
Specifications

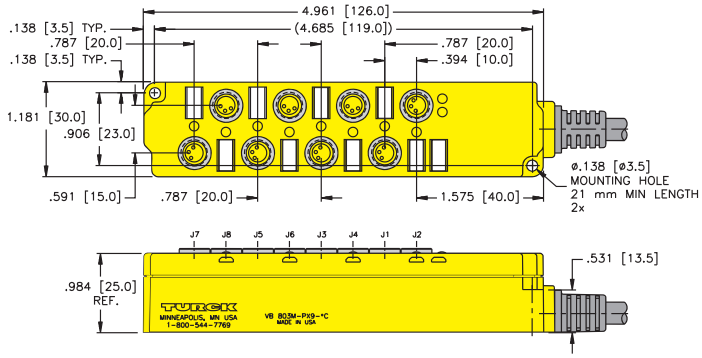
Housing:	Nylon
Connectors:	TPU (***picofast***®); nylon or TPU (***eurofast***®); PETP (M16)
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection Class:	IEC IP 67
Accessories:	KS 5/10 labels, 2 pieces PSG-CC (snap lock) or PSGM-CC (threaded) included
Cable Length:	Standard length for junction boxes and M16 quick disconnect cordsets is nominal 5 meters Other lengths available by request. Consult factory

Dimensions

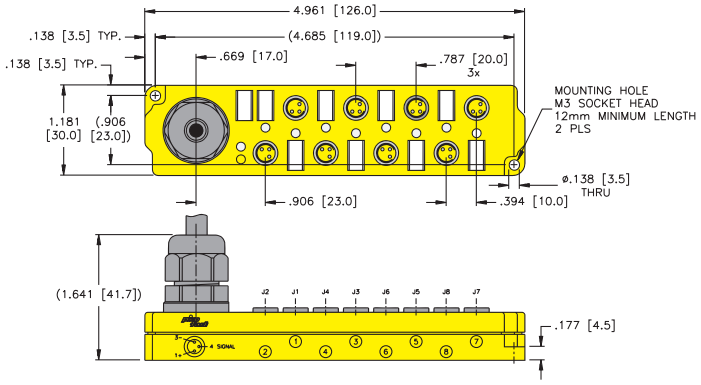
8-Port with *eurofast* Home Run Connector



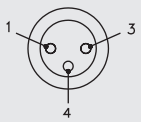
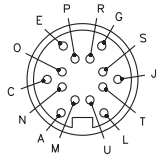
8-Port with Side Integral Home Run Cable



8-Port with Top Integral Home Run Cable



Pinout

Female	Male
	
3-pin *picofast*	**14-pin *versafast*®**

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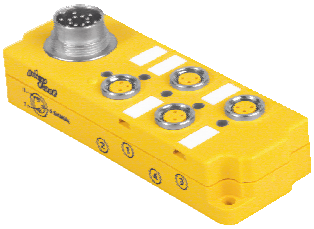


multibox® picofast® Junction Boxes, 4-port, 4-pin

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

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

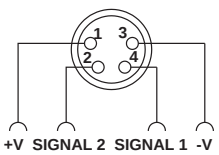
Application	Specifications	Pinout	No LEDs
4-port J-box 2 signals per port Snap lock connectors Top integral cable	3 A/port, 4 A total Black PVC cable 10x24 AWG foil shield and 26 AWG drain	Function Color Function Color +V BN Port 3/2 GN - V BU Port 3/4 WH Port 1/2 RD Port 4/2 BK Port 1/4 PK Port 4/4 VT Port 2/2 YE Port 2/4 GY	VB 404Z-*
4-port J-box 2 signals per port Snap lock connectors Side integral cable			VB 404Z-*C
4-port J-box 2 signals per port Snap lock connectors M16 connector	2 A/port, 3 A total w/1 power pair 6 A total w/dual power 14-pin M16 connector 10/12 conductors Mates with BKM 14-917-*	Function Pin/Color Function Pin/Color +V A/RD/BU Port 2/2 O/YE - V L/GY/PK Port 2/4 C/GY +V M/BN Port 3/2 E/GN - V U/BU Port 3/4 P/WH Port 1/2 R/RD Port 4/2 G/BK Port 1/4 N/PK Port 4/4 S/VT	VB 404Z-BS14

4-port, 4-pin, Threaded, 10-48 VDC

Application	Specifications	Pinout	No LEDs
4-port J-box 2 signals per port Threaded connectors Top integral cable	3 A/port, 4 A total Black PVC cable 10x24 AWG foil shield and 26 AWG drain	Function Color Function Color +V BN Port 2/4 GY - V BU Port 3/2 GN Port 1/2 RD Port 3/2 WH Port 1/4 PK Port 4/2 BK Port 2/2 YE Port 4/4 VT	VB 404M-*
4-port J-box 2 signals per port Threaded connectors Side integral cable			VB 404M-*C
4-port J-box 2 signals per port Threaded connectors M16 connector	2 A/port 3 A total w/1 power pair 6 A total w/dual power 14-pin M16 connector 10/12 conductors Mates with BKM 14-917-*	Function Pin/Color Function Pin/Color +V A/RD/BU Port 2/2 O/YE - V L/GY/PK Port 2/4 C/GY +V M/BN Port 3/2 E/GN - V U/BU Port 3/4 P/WH Port 1/4 R/RD Port 4/2 G/BK Port 1/2 N/PK Port 4/4 S/VT	VB 404M-BS14

* Cable length in meters.

Functional Wiring Diagrams



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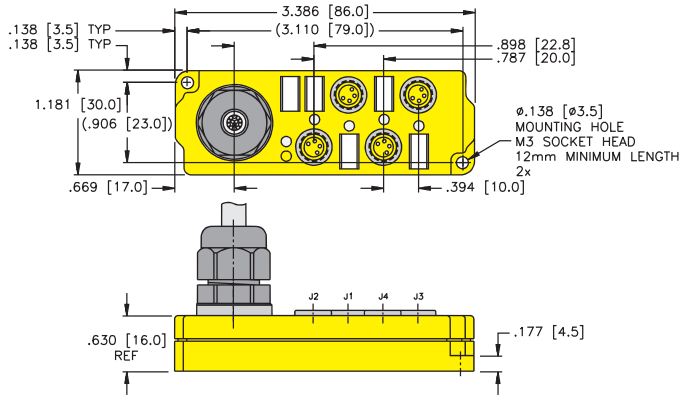
Specifications

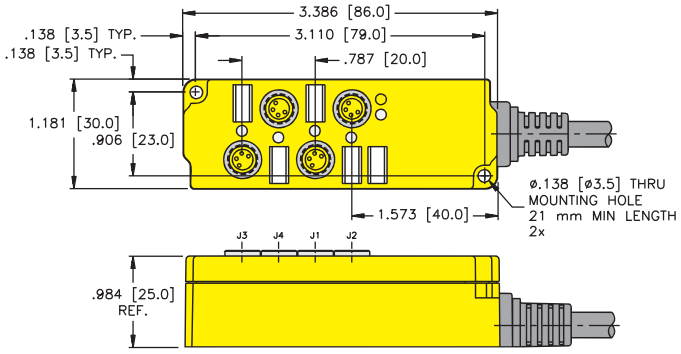
Housing:	Nylon
Connectors:	TPU or nylon (J1-J4) or Nylon P1
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	KS 5/10 labels, 2 pieces PSG-CC (snap lock) or PSGM-CC (threaded) included
Cable Length:	Standard length is nominal 5 meters
Recommended Splitter:	YP2-MFS 4/2MFK 3, for threaded version only

Dimensions

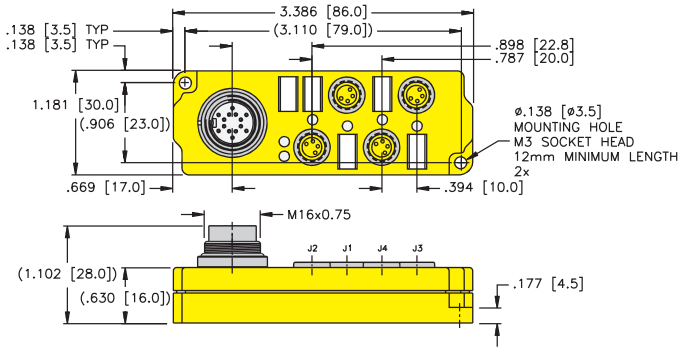
4-Port with Top Integral Home Run Cable



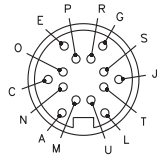
4-Port with Side Integral Home Run Cable



4-Port with *versafast* Home Run Connector



Pinout

Female	Male
	
4-pin *picofast*	**14-pin *versafast***

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multibox® picofast® Junction Boxes, 8-port, 4-pin

Dual Input/Output per Port

Snap Lock or Threaded Connectors

M16 Quick Disconnect or Integral Home Run Cable

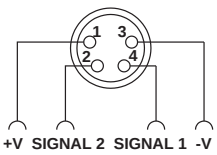
4-port, 4-pin, Snap Lock, 10-48 VDC

Application	Specifications	Pinout	Part Number
8-port J-box 2 signals per port Snap lock connectors Top integral cable	3 A/port, 4 A total Black PVC cable 10x24 AWG	Function / Color / Function / Color - 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	VB 804Z-*
8-port J-box 2 signals per port Snap lock connectors Side integral cable			VB 804Z-*C
8-port J-box 2 signals per port Snap lock connectors M16 connector	3 A/port, 4 A total 19-pin M16 connector 18 conductor Mates with BKM 19-995-*	Function / Pin/Color / Function / Pin/Color +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	VB 804Z-BS19

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

Application	Specifications	Pinout	Part Number
8-port J-box 2 signals per port Threaded connectors Top integral cable	3 A/port, 4 A total Black PVC cable 10x24 AWG	Function / Color / Function / Color - 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	VB 804M-*
8-port J-box 2 signals per port Threaded connectors Side integral cable			VB 804M-*C
8-port J-box 2 signals per port Threaded connectors M16 connector	3 A/port, 4 A total 19-pin M16 connector 18 conductor Mates with BKM 19-995-*	Function / Pin/Color / Function / Pin/Color +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	VB 804M-BS19

Functional Wiring Diagrams



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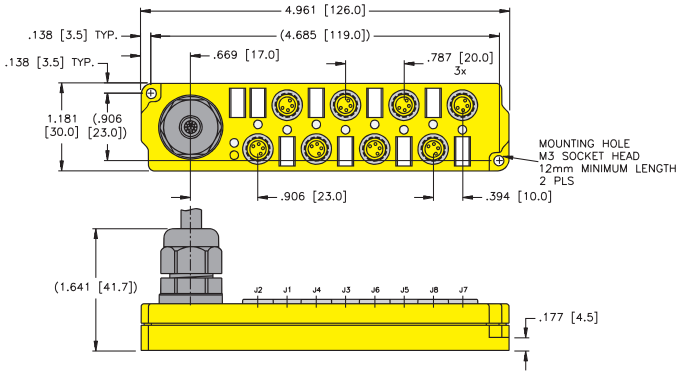
Specifications

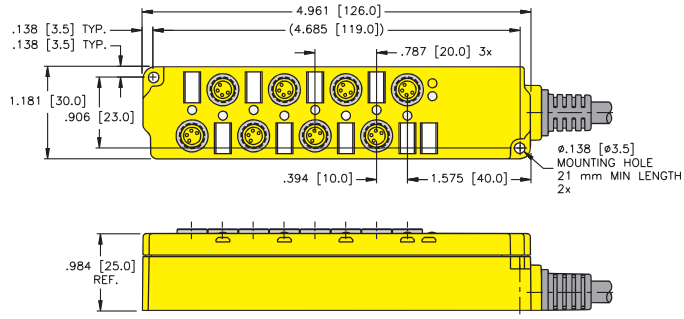
Housing:	Nylon/yellow
Connectors:	TPU or nylon (J1-8), Nylon (P1)
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67
Accessories:	KS 5/10 labels, 2 pieces PSG-CC (snap lock) or PSGM-CC (threaded) included
Cable Length:	Standard length is nominal 5 meters
Recommended Splitter:	YP2-MFS 4/2 MFK3, for threaded version only

Dimensions

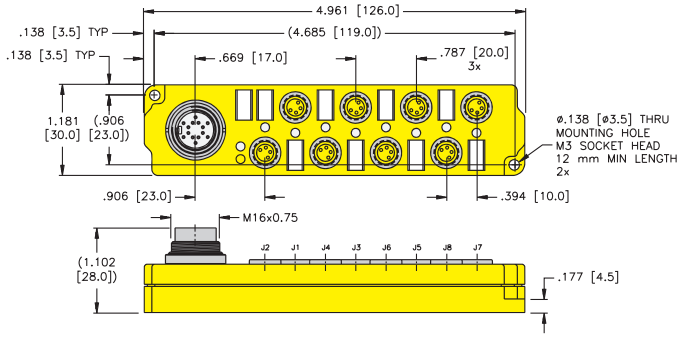
4-Port with Top Integral Home Run Cable



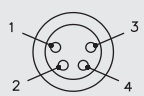
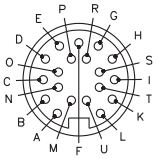
4-Port with Side Integral Home Run Cable



4-Port with *versafast* Home Run Connector



Pinout

Female	Male
	
4-pin *picofast*	**19-pin *versafast***

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TURCK 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	Function / Color / Function / Color +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 Port 4 OG Port 10 PK	VB 1003-*	VB 1003-PX10-*

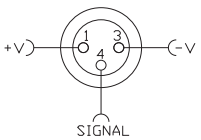
10-port, J-box, Snap Lock, 48 VDC

Application	Specifications	Pinout	No LEDs	PNP LED
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-*	Function / Pin/Color / Function / Pin/Color +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	VB 1003-BS14	VB 1003-PX10-BS14

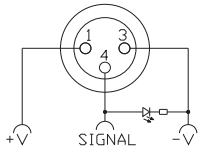
* Length in meters

Functional Wiring Diagrams

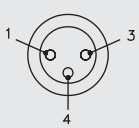
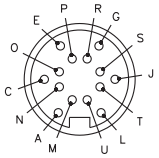
No LED Version



PNP LED Version



Pinouts

Female	Male
	
3-pin *picofast*	14-pin *versafast*®

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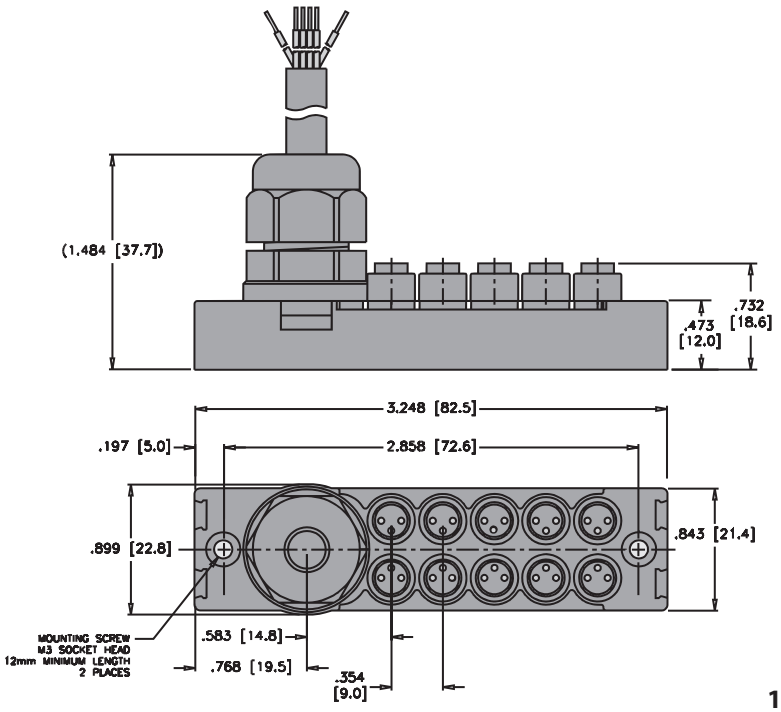
Specifications

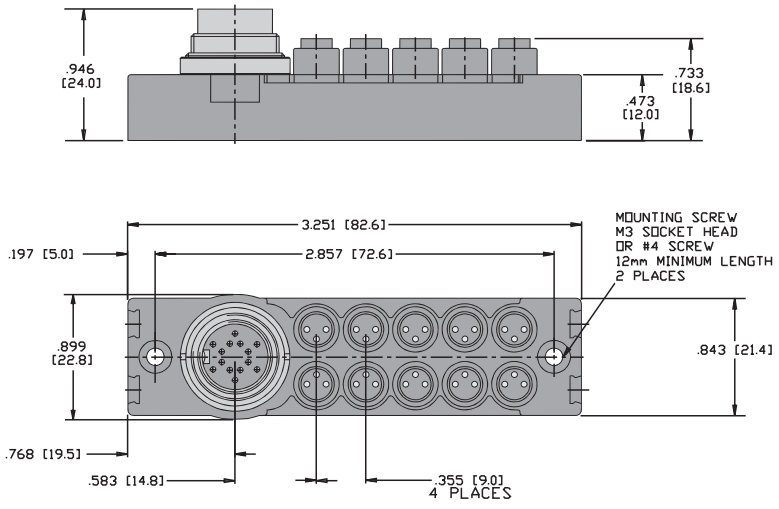
Housing:	Nylon
Connectors:	TPU or Nylon
Contacts:	Gold plated brass
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection Class:	IEC IP67
Accessories:	Closure cap, PSG-CC (optional - 2 included)
Cable Length:	Standard length for junction boxes and M16 cordsets is nominal 5 meters Other lengths available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

Dimensions

10-Port with Integral Home Run Cable



10-Port with M16 Home Run Connector



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multibox® *pentafast*® Junction Boxes, 4-port

- **Single Input/Output per port**
- **Threaded Connections**
- **Available with LEDs**
- **M12 Quick Disconnect or Integral Home run cable**

4-Port, 3-pin, Threaded, 10-30 VDC

Application	Specifications	Pinout	PNP LED
4-Port j-box, 1 signal per port, threaded connectors, integral cable	1 A/port, 3 A total, Black TPU cable 2x24 AWG PWR Pair, 4x26 Signal	Function / Color +V / BN -V / BU Port 1 / WH Function / Color Port 2 / GN Port 3 / YE Port 4 / GY	VBV 403M-PX5-*M/S90
4-Port j-box, 1 signal per port, threaded connectors, ***eurofast***® connector	1 A/port, 3 A total, 12-pin ***eurofast***® M12 connector, 12 conductors, Mates with RKC- 12T	Function / Pin +V / 2 -V / 7 Port 1/4 / 1 Function / Pin Port 2/4 / 3 Port 3/4 / 4 Port 4/4 / 5	VBV 403M-PX5-FS 12

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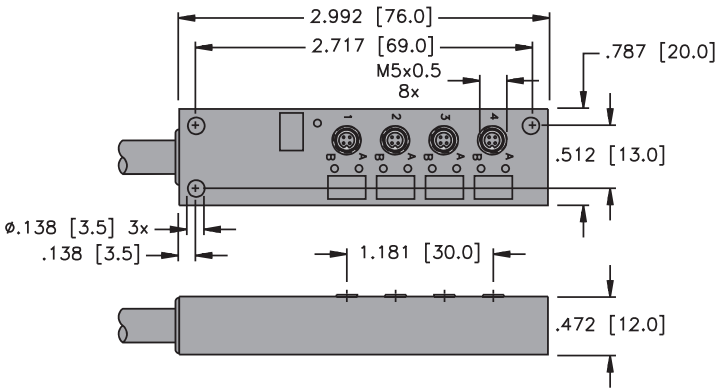
Specifications

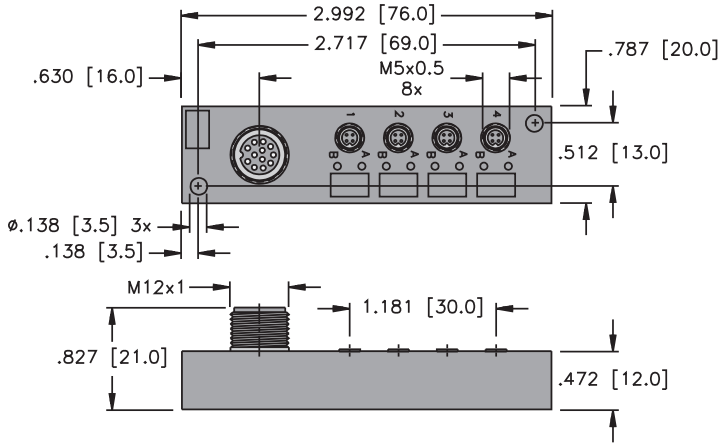
Housing:	Nylon
Connectors:	Nylon
Contacts:	Gold plated brass
Threaded Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30°C to +80°C (-22°F to 176°F)
Protection Class:	IP67
Cable Length:	Standard length for junction boxes and multifast series quick disconnect cordsets in nominal 5 meters. Other lengths available by request - consult factory

Dimensions

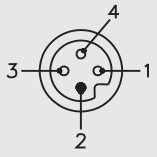
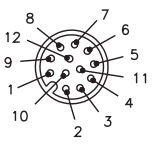
VBV 403M-PX5-*M/S90



VBV 403M-PX5-FS 12



Pinout

Female	Male
	
3-pin *pentafast*	**12-pin *eurofast***

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multibox® *pentafast*® Junction Boxes, 8-port

- **Single Input/Output per port**
- **Threaded Connections**
- **Available with LEDs**
- **M12 Quick Disconnect or Integral Home run cable**

8-Port, 3-pin, Threaded, 10-30 VDC

Application	Specifications	Pinout	PNP LED
8-Port j-box, 1 signal per port, threaded connectors, integral cable	1 A/port, 3 A total, Black TPU cable 2x24 AWG Pwr Pair, 8x26 Signal	Function / Color +V / BN -V / BU Port 1 / WH Port 2 / GN Port 3 / YE Function / Color Port 4 / GY Port 5 / PK Port 6 / RD Port 7 / BK Port 8 / VT	VBV 803M-PX9-*M/S90
8-Port j-box, 1 signal per port, threaded connectors, ***eurofast***® connector	3 A/port, 3 A total, 12-pin ***eurofast*** M12 connector, 12 conductors, Mates with RKC- 12T-*	Function / Pin +V / 2 -V / 7 Port 1 / 1 Port 2 / 3 Port 3 / 4 Function / Pin Port 4 / 5 Port 5 / 6 Port 6 / 8 Port 7 / 11 Port 8 / 12	VBV 803M-PX9-FS 12

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TURCK Junction Box Connectivity Products

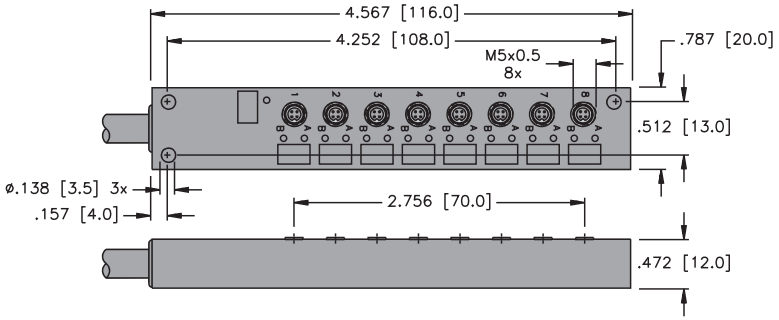
TURCK works Industrial Automation

Specifications

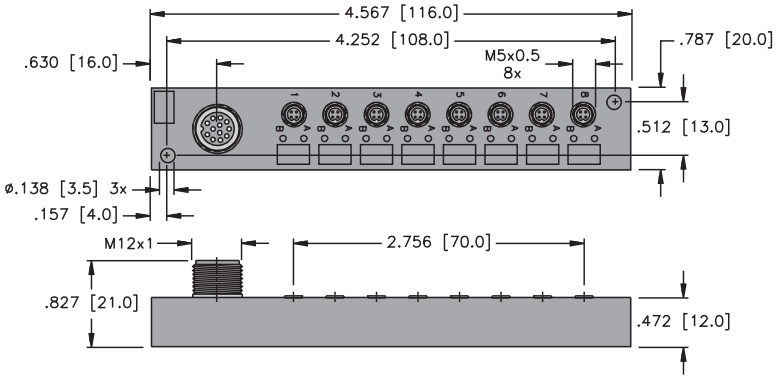
Housing:	Nylon
Connectors:	Nylon
Contacts:	Gold plated brass
Threaded Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30 C to +80 C (-22 F to 176 F)
Protection Class:	IP67
Cable Length:	Standard length for junction boxes and multifast series quick disconnect cordsets in nominal 5 meters. Other lengths available by request - consult factory

Dimensions

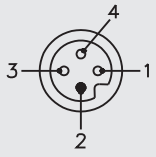
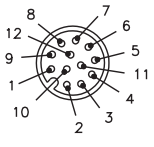
VBV 803M-PX9-*M/S90



VBV 803M-PX9-FS 12



Pinout

Female	Male
	
3-pin *pentafast*®	**12-pin *eurofast*®**

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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	Function / Color Common (L1) / WH Ground / GN J1 Load (L2) / RD Function / Color J2 Load (L2) / OG J3 Load (L2) / BK J4 Load (L2) / 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-*	Function / Pin / Color Common (L1) / 5 / WH Ground / 7 / GN J1 Load (L2) / 6 / RD Function / Pin / Color J2 Load (L2) / 1 / OG J3 Load (L2) / 4 / BK J4 Load (L2) / 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	Function / Pin / Color Common (L1) / 1 / WH Ground / 3 / GN J1 Load (L2) / 2 / RD Function / Pin / Color J2 Load (L2) / 4 / OG J3 Load (L2) / 5 / BK J4 Load (L2) / 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	Function / Color Common (L1) / WH Ground / GN J1 Load (L2) / RD J2 Load (L2) / OG Function / Color J3 Load (L2) / BK J4 Load (L2) / BU J5 Load (L2) / YE J6 Load (L2) / 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-*	Function / Pin / Color Common (L1) / 5 / WH Ground / 7 / GN J1 Load (L2) / 6 / RD J2 Load (L2) / 1 / OG Function / Pin / Color J3 Load (L2) / 4 / BK J4 Load (L2) / 2 / BU J5 Load (L2) / 3 / YE J6 Load (L2) / 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	Function / Color Common (L1) / WH Ground / GN J1 Load (L2) / RD J2 Load (L2) / VT J3 Load (L2) / BK Function / Color J4 Load (L2) / BU J5 Load (L2) / GY J6 Load (L2) / YE J7 Load (L2) / OG J8 Load (L2) / 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-*	Function / Pin / Color Common (L1) / 5 / WH Ground / 7 / GN J1 Load (L2) / 6 / RD J2 Load (L2) / 1 / VT J3 Load (L2) / 4 / BK Function / Pin / Color J4 Load (L2) / 2 / BU J5 Load (L2) / 3 / GY J6 Load (L2) / 8 / YE J7 Load (L2) / 9 / OG J8 Load (L2) / 10 / BN	8 RKF 30-CS12

* Length in meters

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TURCK Junction Box Connectivity Products

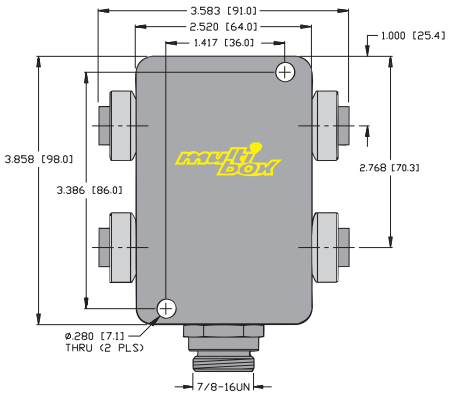
TURCK works Industrial Automation

Specifications

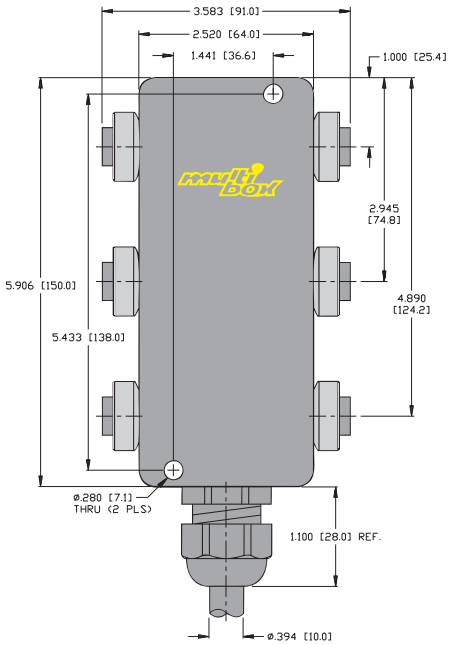
Housing:	Die cast aluminum alloy
Connector:	Nickel plated brass, oil resistant TPU contact carrier
Contacts:	Gold plated brass
Cable:	See table for specifications
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection:	IEC IP67
Cable Length:	Standard cable length is 6 meters. Other lengths available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

Dimensions

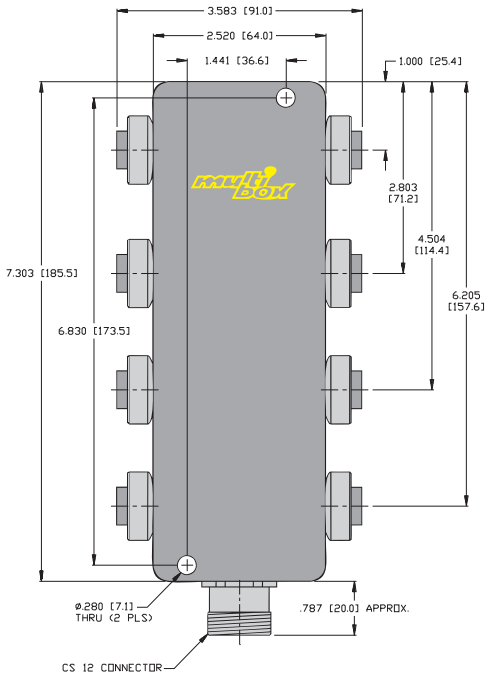
4-Port



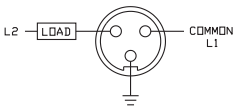
6-Port



8-Port



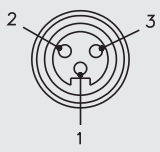
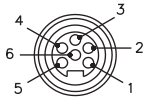
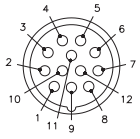
Wiring Diagram



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

Notes:
Clearance holes for 1/4-20 screws (2 places).
All housings are 34.0 mm in height.

Pinout

Female	Male	Male
		
3-pin *minifast*	**6-pin *minifast***	**12-pin *multifast***

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multibox® *minifast*® Junction Boxes, 3-pin

6 and 8 Ports

Quick Disconnect *minifast* Connector

Simplifies Wiring Installations

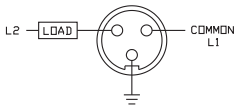
6-port, 250 VAC / 300 VDC

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

8-port, 250 VAC / 300 VDC

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

Functional Wiring Diagram



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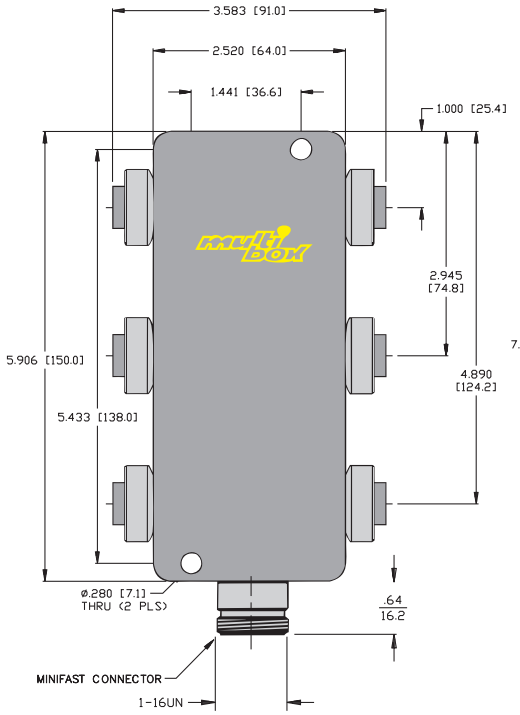
Specifications

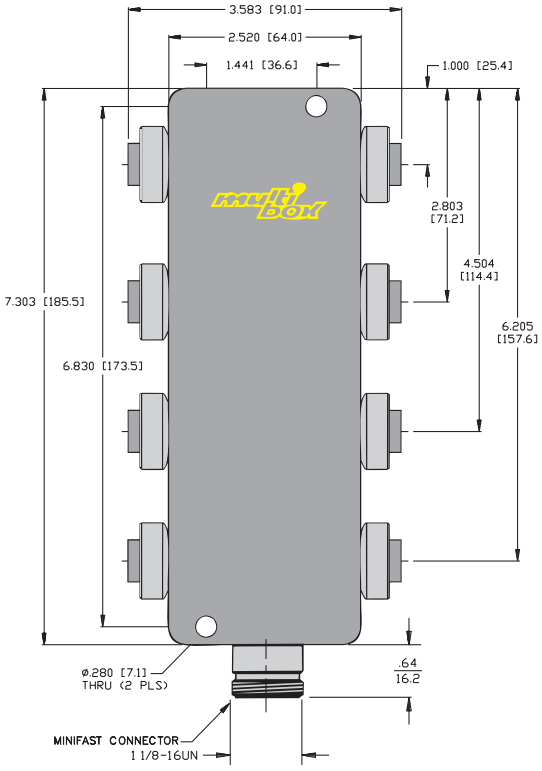
Housing:	Die cast aluminum alloy
Connectors:	Nickel plated brass, oil resistant TPU contact carrier
Contacts:	Gold plated brass
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67

Dimensions

6-Port

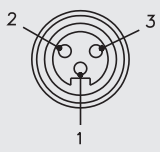
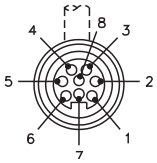
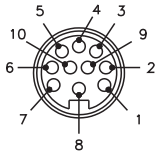


8-Port



Notes:
Clearance holes for 1/4-20 screws (2 places).
All housings are 34.0 mm in height.

Pinout

Female	Male	Male
		
3-pin *minifast*	**8-pin *minifast***	**10-pin *minifast***

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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

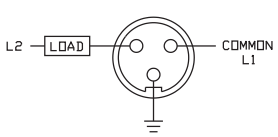
Application	Specifications	Pinout	Part Number
4 port J-box Standard wiring Integral cable	4 A/port, 9 A total PVC cable, black, 7x18 AWG, foil shield and 20 AWG drain	Function / Color Common (L1) WH LED Power (L2) WH / BK Ground GN J1 Load (L2) RD J2 Load (L2) OG J3 Load (L2) BK J4 Load (L2) BU	4 RKF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

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	Function / Color Common (L1) WH LED Power (L2) BU / BK Ground GN J1 Load (L2) RD J2 Load (L2) OG J3 Load (L2) BK J4 Load (L2) BU J5 Load (L2) WH / BK J6 Load (L2) RD / BK J7 Load (L2) GN / BK J8 Load (L2) OG / BK	8 RKF 30-X9-*M
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-*	Function / Pin / Color Common (L1) 11 / WH LED Power (L2) 7 / BU/BK Ground 9 / GN J1 Load (L2) 10 / RD J2 Load (L2) 1 / OG J3 Load (L2) 12 / BK J4 Load (L2) 2 / BU J5 Load (L2) 3 / WH / BK J6 Load (L2) 4 / RD / BK J7 Load (L2) 5 / GN / BK J8 Load (L2) 6 / OG / BK	8 RKF 30-X9-CS12

* Length in meters

Functional Wiring Diagram



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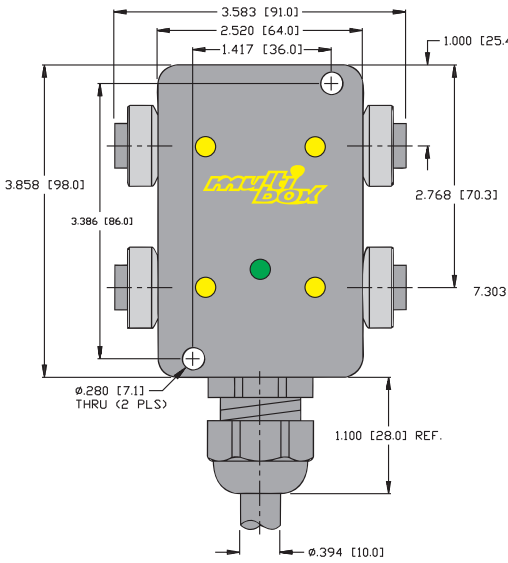
Specifications

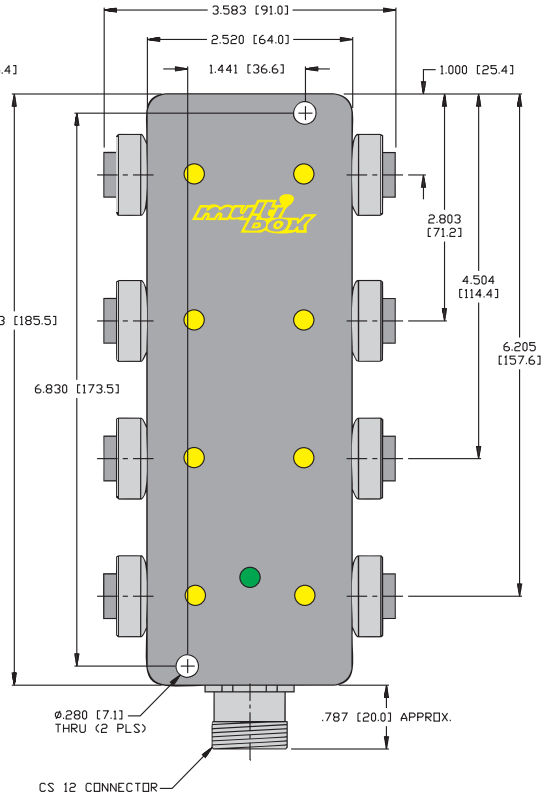
Housing:	Die cast aluminum alloy
Connector:	Nickel plated brass, oil resistant TPU contact carrier
Contacts:	Gold plated brass
Cable:	See table for specifications
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection:	IEC IP67
Cable Length:	Standard cable length is 6 meters. Other lengths available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

Dimensions

4-Port

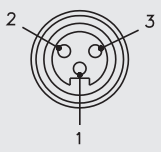
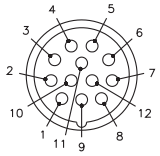


8-Port



Notes:
Clearance holes for 1/4-20 screws (2 places).
All housings are 34.0 mm in height.
Green LED = Power on (center position)
Yellow LED = Signal (outer position).

Pinout

Female	Male
	
3-pin *minifast*	**12-pin *multifast***

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multibox® *minifast*® Junction Boxes with LEDs, 3-pin

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

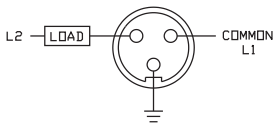
4-port, 40-120 VAC

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

8-port, 40-120 VAC

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

Functional Wiring Diagram



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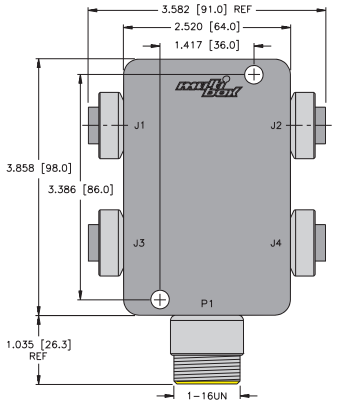
Specifications

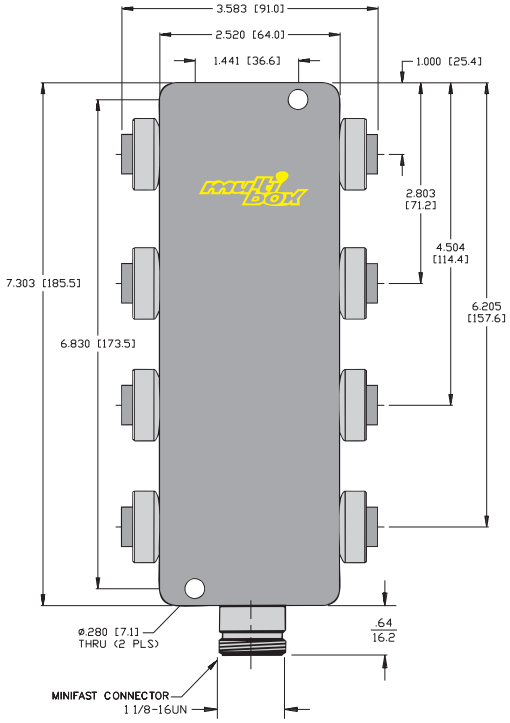
Housing:	Die cast aluminum alloy
Connectors:	Nickel plated brass, oil resistant TPU contact carrier
Contacts:	Gold plated brass
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67

Dimensions

4-Port

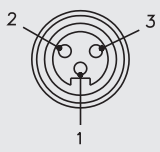
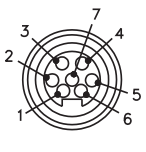
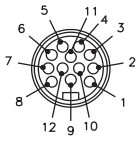


8-Port



Notes:
Clearance holes for 1/4-20 screws (2 places).
All housings are 34.0 mm in height.

Pinout

Female	Male	Male
		
3-pin *minifast*	**7-pin *minifast***	**12-pin *minifast***

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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
		Function	Color	Function	Color	
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	Common +V	WH	J2 Load	OG	4 RKF 40-*M
		Ground -V	GN	J3 Load	BK	
		J1 Load	RD	J4 Load	BU	

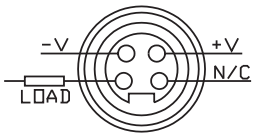
6-port, 250 VAC/300 VDC

Application	Specifications	Pinout				Part Number
		Function	Color	Function	Color	
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	Common +V	WH	J3 Load	BK	6 RKF 40-*M
		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
		Function	Color	Function	Color	
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	Common +V	WH	J4 Load	BU	8 RKF 40-*M
		Ground -V	GN	J5 Load	GY	
		J1 Load	RD	J6 Load	YE	
		J2 Load	VT	J7 Load	OG	
		J3 Load	BK	J8 Load	BN	

Functional Wiring Diagram



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

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TURCK Junction Box Connectivity Products

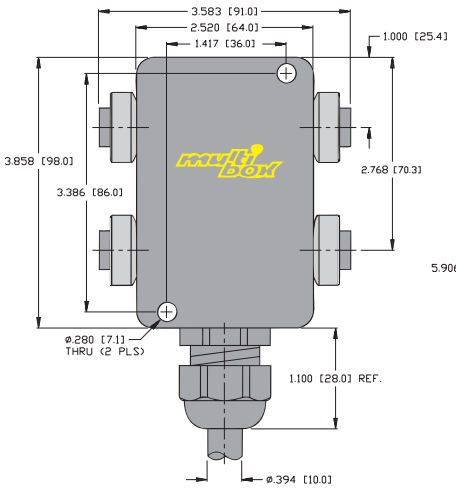
TURCK works Industrial Automation

Specifications

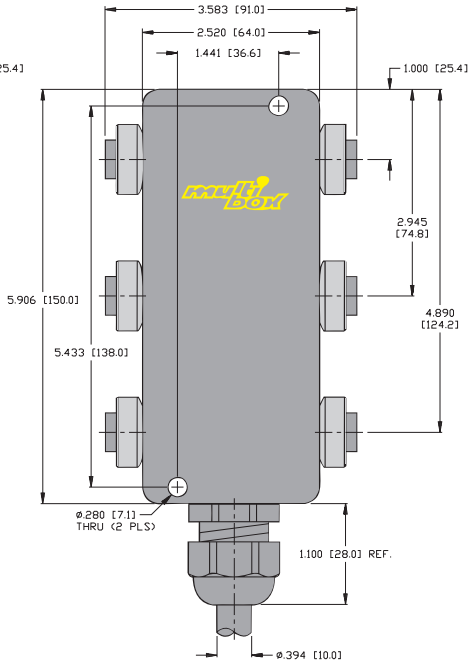
Housing:	Die cast aluminum alloy
Connector:	Nickel plated brass, oil resistant TPU contact carrier
Contacts:	Gold plated brass
Cable:	See table for specifications
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection:	IEC IP67
Cable Length:	Standard cable length is 6 meters. Other lengths available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

Dimensions

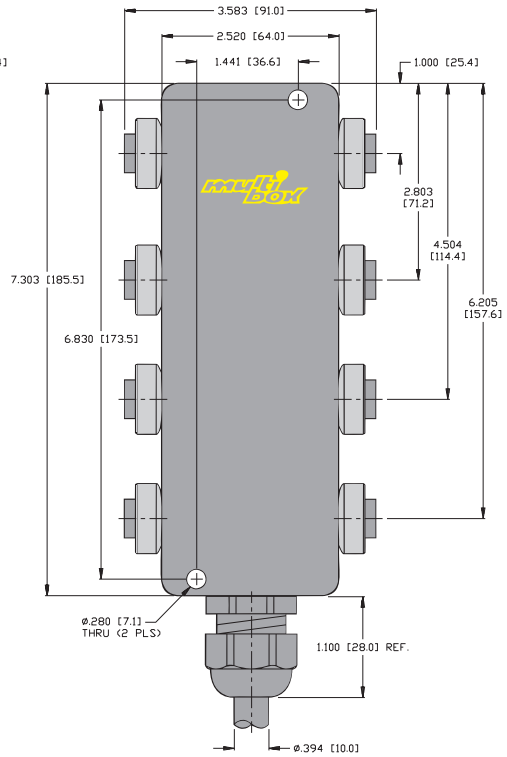
4-Port



6-Port

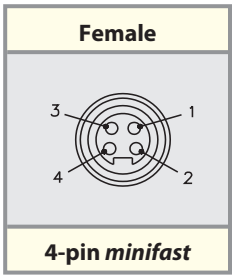


8-Port



Notes:
Clearance holes for 1/4-20 screws (2 places).
All housings are 34.0 mm in height.

Pinout



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multibox® *minifast*® Junction Boxes, 4-pin

4, 6 and 8 Ports

Quick Disconnect *minifast* Connector

Simplifies Wiring Instructions

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	Function Common +V Ground -V J1 Load	Pin/Color 1 / WH 3 / GN 2 / RD	Function J2 Load J3 Load J4 Load	Pin/Color 4 / OG 5 / BK 6 / BU	4 RKF 40-RSF6B6

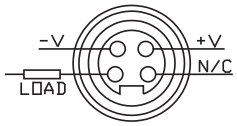
6-port, 250 VAC / 300 VDC

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	Function Common +V Ground -V J1 Load J2 Load	Pin/Color 5 / WH 7 / GN 6 / RD 1 / OG	Function J3 Load J4 Load J5 Load J6 Load	Pin/Color 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	Function Common +V Ground -V J1 Load J2 Load J3 Load	Pin/Color 10 / WH 8 / GN 7 / RD 1 / OG 9 / BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Pin / Color 2 / BU 3 / WH / BK 4 / RD / BK 5 / GN / BK 6 / OG / BK	8 RKF 40-RSF100

Functional Wiring Diagram



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

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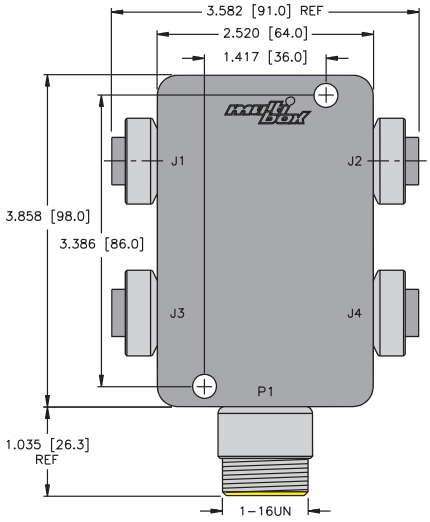
Specifications

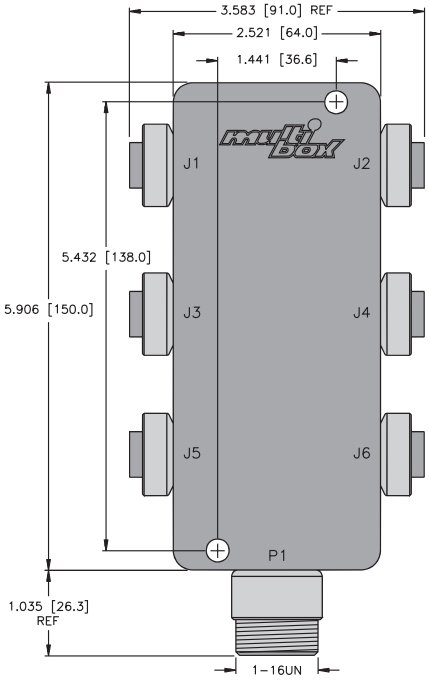
Housing:	Die cast aluminum alloy
Connectors:	Nickel plated brass, oil resistant TPU contact carrier
Contacts:	Gold plated brass
Temperature:	-30°C to +80°C (-22°F to +176°F)
Protection:	IEC IP67

Dimensions

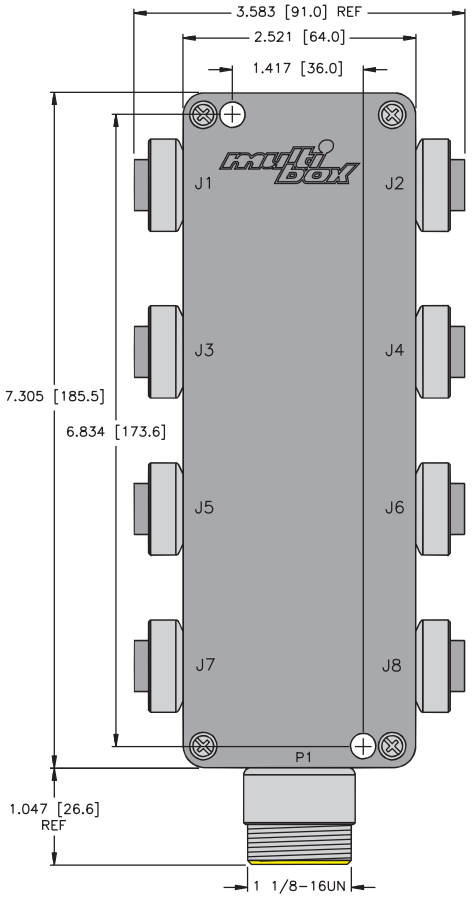
4-Port



6-Port

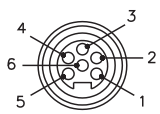
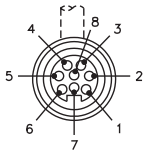
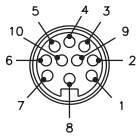


8-Port



Notes:
Clearance holes for 1/4-20 screws (2 places).
All housings are 34.0 mm in height.

Pinout

Female	Male	Male	Male
			
4-pin *minifast*	**6-pin *minifast***	**8-pin *minifast***	**10-pin *minifast***

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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

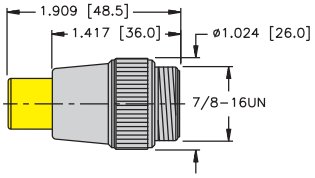
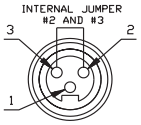
Application	Specifications	Pinout	Part Number
4 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3/16 AWG	Function / Color Common (L1) / WH Ground / GN Load (L2) / BK	4 RKF 301-*M
4 port J-box Series wired ***minifast*** connector	4 A/port, 4 A total 3-pin ***minifast***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

6-port, 250 VAC/300 VDC

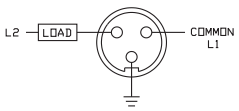
Application	Specifications	Pinout	Part Number
6 port J-box Series wired Integral cable	4 A/port, 4 A total PVC cable, yellow, 3/16 AWG	Function / Color Common (L1) / WH Ground / GN Load (L2) / BK	6 RKF 301-*M
6 port J-box Series wired ***minifast*** connector	4 A/port, 4 A total 3-pin ***minifast*** connector, 3 conductors, mates with RKM 36-*M	Function / Pin / Color Common (L1) / 3 / WH Ground / 1 / GN Load (L2) / 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 / Color Common (L1) / WH Ground / GN Load (L2) / 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 / Pin / Color Common (L1) / 3 / WH Ground / 1 / GN Load (L2) / 2 / BK	8 RKF 301-B1131

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

Functional Wiring Diagram



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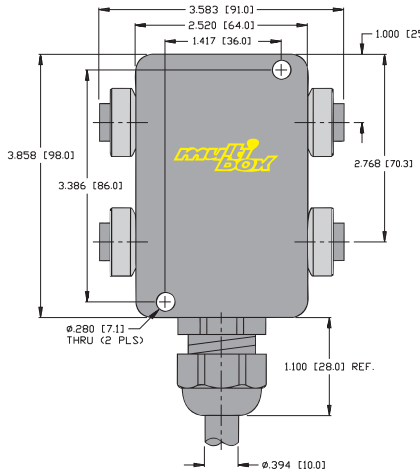
Specifications

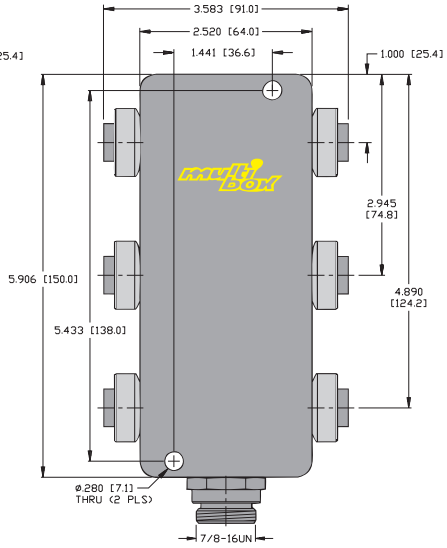
Housing:	Die cast aluminum alloy
Connector:	Nickel plated brass, oil resistant TPU contact carrier
Contacts:	Gold plated brass
Cable:	See table for specifications
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection:	IEC IP67
Cable Length:	Standard cable length is 6 meters. Other lengths available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

Dimensions

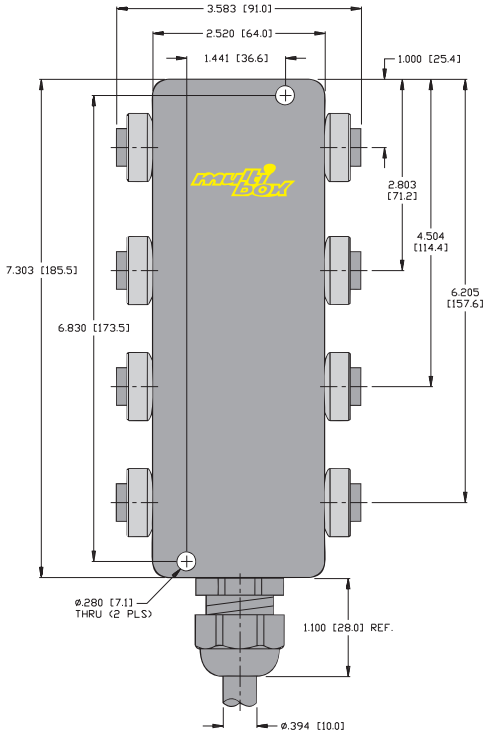
4-Port



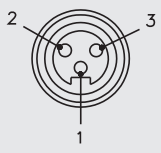
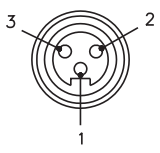
6-Port



8-Port



Pinout

Female	Male
	
3-pin *minifast*	**3-pin *minifast***

Notes:
Clearance holes for 1/4-20 screws (2 places).
All housings are 34.0 mm in height.

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TURCK 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	Function Common (L1) Ground J1 Load (L2)	Color WH GN RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Color 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-*	Function Common (L1) Ground J1 Load (L2)	Pin / Color 5 / WH 7 / GN 6 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin / Color 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	Function Common (L1) Ground J1 Load (L2)	Pin / Color 1 / WH 3 / GN 2 / RD	Function J2 Load (L2) J3 Load (L2) J4 Load (L2)	Pin / Color 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	Function Common (L1) Ground J1 Load (L2) J2 Load (L2)	Color WH GN RD OG	Function J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	Color 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-*	Function Common (L1) Ground J1 Load (L2) J2 Load (L2)	Pin / Color 5 / WH 7 / GN 6 / RD 1 / OG	Function J3 Load (L2) J4 Load (L2) J5 Load (L2) J6 Load (L2)	Pin / Color 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	Function Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Color WH GN RD VT BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Color 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-*	Function Common (L1) Ground J1 Load (L2) J2 Load (L2) J3 Load (L2)	Pin / Color 5 / WH 7 / GN 6 / RD 1 / VT 4 / BK	Function J4 Load (L2) J5 Load (L2) J6 Load (L2) J7 Load (L2) J8 Load (L2)	Pin / Color 2 / BU 3 / GY 8 / YE 9 / OG 10 / BN	VBKB 80-CS12

* Length in meters

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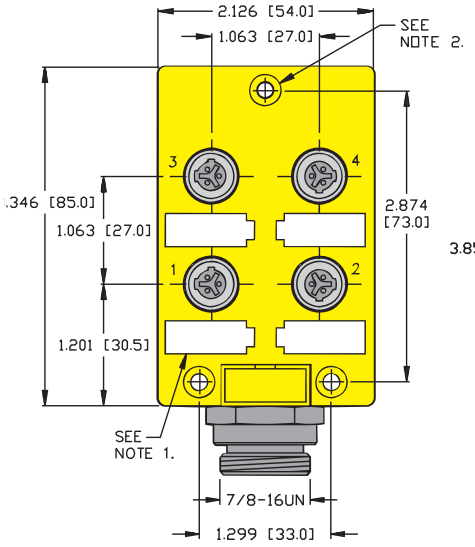
Specifications

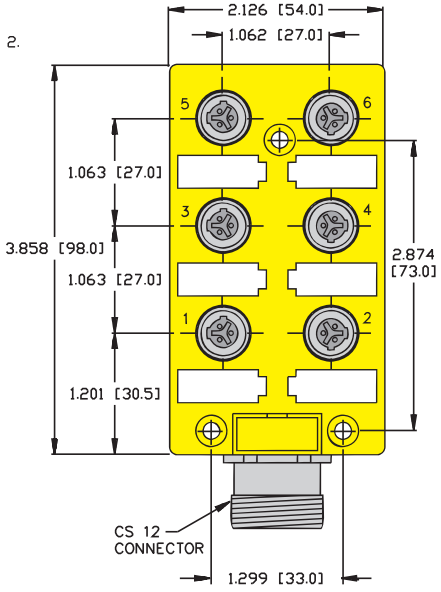
Housing:	Nylon
Contact Carrier:	Nylon (***microfast***®)
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection:	IEC IP67
Cable Length:	Standard cable length is nominal 5 meters. Other lengths available by request - consult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

Dimensions

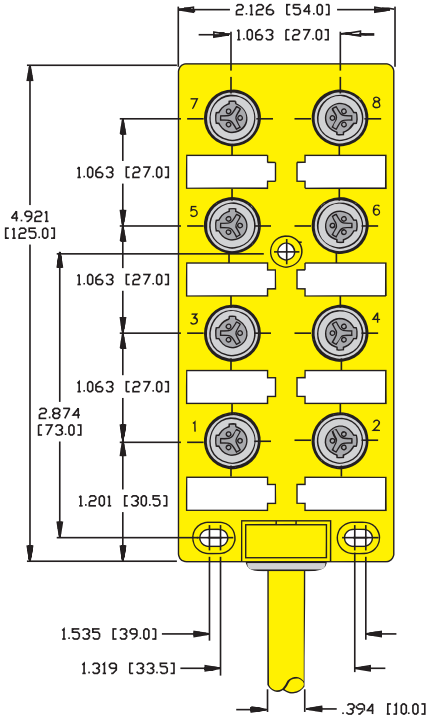
4-Port



6-Port



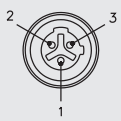
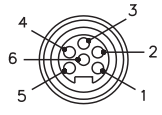
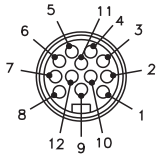
8-Port



Notes:
Removable labels included.
Clearance holes for #8 screws (3 places).
Housings with integral cable: 23.0 mm in thickness.
Housings with quick disconnect: 33.0 mm thickness.

Functional Wiring Diagram

Pinout

Female	Male	Male
		
3-pin *microfast*	**6-pin *minifast***	**12-pin *multifast***

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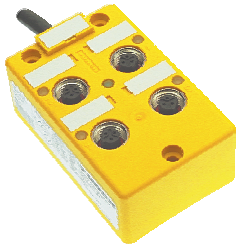


multibox® microfast® Junction Boxes with LEDs

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

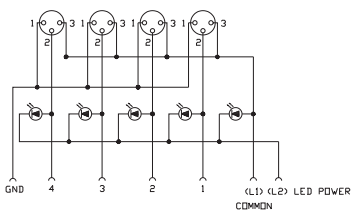
4-port, 40-120 VAC

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	Function / Color Common (L1) WH LED Power (L2) WH / BK Ground GN J1 Load (L2) RD J2 Load (L2) OG J3 Load (L2) BK J4 Load (L2) BU	VBKB 40-X5-*
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-*	Function / Pin / Color Common (L1) 3 / WH LED Power (L2) 1 / WH/BK Ground 7 / GN J1 Load (L2) 4 / RD J2 Load (L2) 5 / OG J3 Load (L2) 2 / BK J4 Load (L2) 6 / BU	VBKB 40-X5-CS12

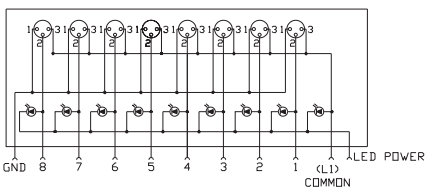
8-port, 40-120 VAC

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	Function / Color Common (L1) WH LED Power (L2) BU / BK Ground GN J1 Load (L2) RD J2 Load (L2) OG J3 Load (L2) BK J4 Load (L2) BU J5 Load (L2) WH / BK J6 Load (L2) RD / BK J7 Load (L2) GN / BK J8 Load (L2) OG / BK	VBKB 80-X9-*
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-*	Function / Pin / Color Common (L1) 11 / WH LED Power (L2) 7 / BU/BK Ground 9 / GN J1 Load (L2) 10 / RD J2 Load (L2) 1 / OG J3 Load (L2) 12 / BK J4 Load (L2) 2 / BU J5 Load (L2) 3 / WH / BK J6 Load (L2) 4 / RD / BK J7 Load (L2) 5 / GN / BK J8 Load (L2) 6 / OG / BK	VBKB 80-X9-CS12

Functional Wiring Diagram



Functional Wiring Diagram



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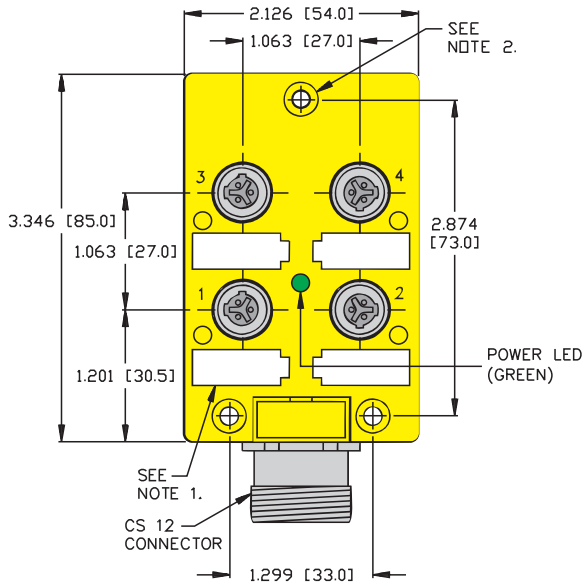
Specifications

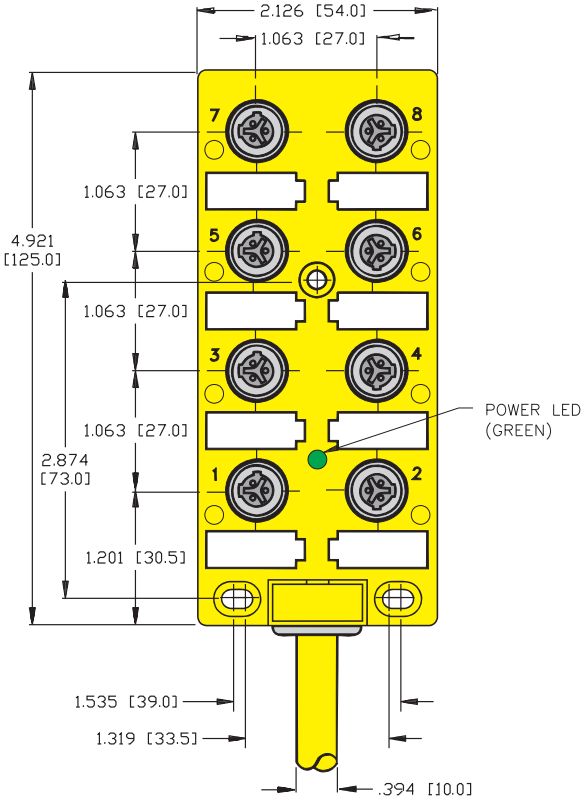
Housing:	Nylon
Contact Carrier:	Nylon (***microfast***®)
Contacts:	Gold plated brass
Thread Inserts:	Nickel plated brass
Cable:	See table
Temperature:	-30 C to +80 C (-22 F to +176 F)
Protection:	IEC IP67
Cable Length:	Standard cable length is nominal 5 meters. Other lengths available by request - consult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

Dimensions

4-Port

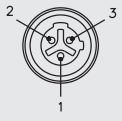
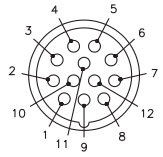


8-Port



Notes:
Removable labels included.
Clearance holes for #8 screws (3 places).
Housings with integral cable: 23.0 mm in thickness.
Housings with quick disconnect: 33.0 mm thickness.
Green LED = Power on (center position)
Yellow LED = Signal (outer position).

Pinout

Female	Male
	
3-pin *microfast*	**12-pin *multifast***

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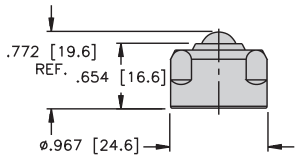
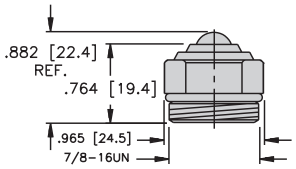
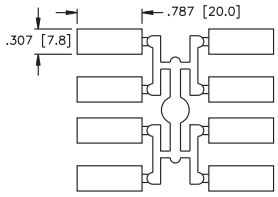
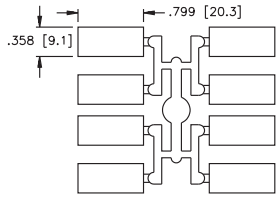
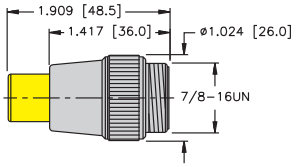
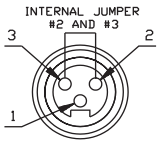
Accessories

Drawing	Part Number	Features
	RKF-MC	Nickel plated brass, 7/8-16UN threads, No lanyard, nitrile gasket, mates to male cordsets, receptacles, or junction box
	RKFV-MC	Stainless Steel, 7/8-16UN threads, No lanyard, nitrile gasket, mates to male cordsets, receptacles, or junction box
	RSF-MC	Nickel plated brass, 7/8-16UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	RSFV-MC	Stainless Steel, 7/8-16UN threads, No lanyard, nitrile gasket, mates to female cordsets, receptacles, or junction box
	RSFK-MC	Nylon7/8-16UN 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, *Vfast*
	VZ 12	Nylon, 40 white labels, 9x20 mm each, snap-in labels for *eurofast* junction boxes, *Vfast*

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

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