multibox® *eurofast*® Nylon Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment. "/C" versions CSA certified for installation in hazardous locations when installed per **TURCK** Control Drawing Ni-2.404(www.turck.com/fmcd) using certified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Ports 1-4, Pin 3 — Drain Ports 1-4, Pin 4 — GN/YE	P-4MB12-4-960-* P-4MB12-4-415-*/C	P-4MBV12-4-960-* P-4MBV12-4-415-*/C

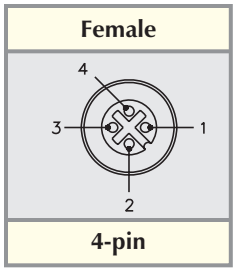
8-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Port 5, Pin 1 — WH/BU Port 5, Pin 2 — BU/WH Port 6, Pin 1 — WH/BN Port 6, Pin 2 — BN/WH Port 7, Pin 1 — WH/YE Port 7, Pin 2 — YE/WH Port 8, Pin 1 — WH/VT Port 8, Pin 2 — VT/WH Ports 1-8, Pin 3 — Drain Ports 1-8, Pin 4 — GN/YE	P-8MB12-4-959-* P-8MB12-4-416-*/C	P-8MBV12-4-959-* P-8MBV12-4-416-*/C

* Length in meters.

† Each circuit has dedicated drain wire not connected in the junction box.

Pinouts

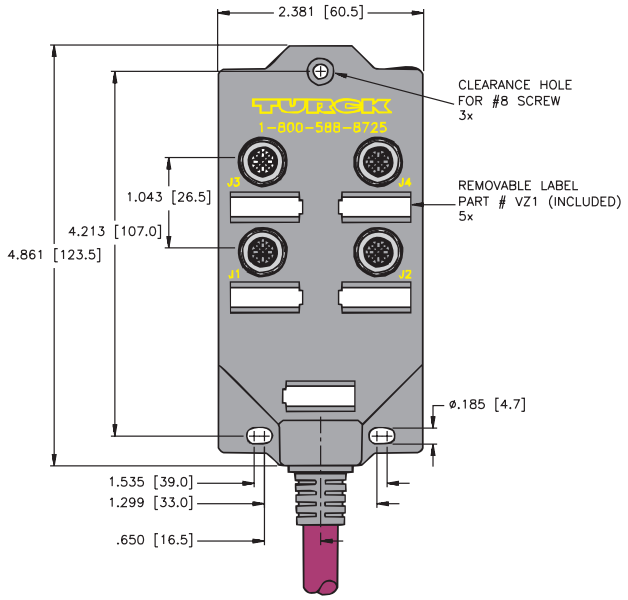


Specifications

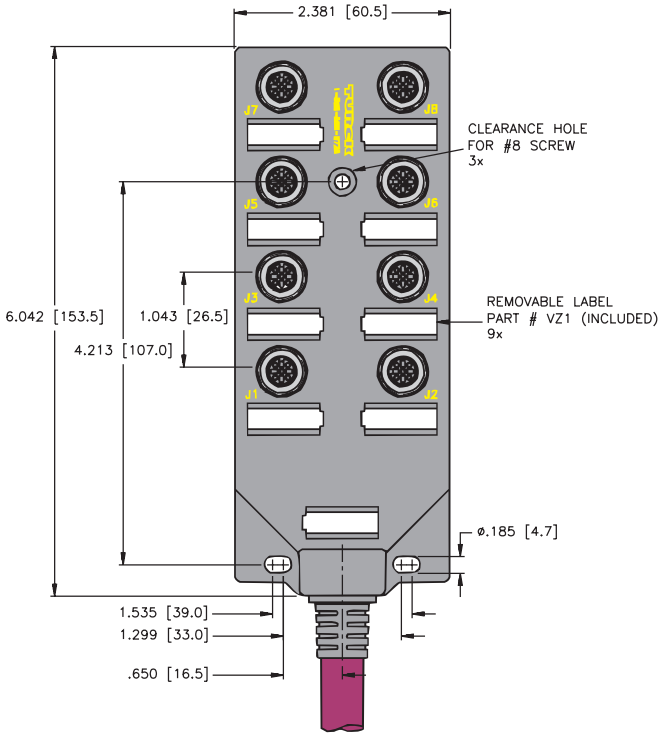
Housing:	Glass filled nylon.	
Connectors	Nickel plated brass or 316 stainless steel housings (see table), Nylon contact carriers.	
Temperature:	-30° to +80°C (-22° to +176°F).	
Contacts:	Gold plated brass.	
Protection:	IP 68.	
Cable:	Standard Version:	Plum PVC jacket, UL ITC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
	"/C" Versions:	Plum PUR jacket, UL ITC/PLTC, CSA CIC/CMX-Outdoor-CM, 300 V, 105°C, FT1.
Electrical Rating:	Standard Version:	100 V, 4 A per conductor (use as ITC is limited to 3 A for 22 AWG conductors).

Dimensions

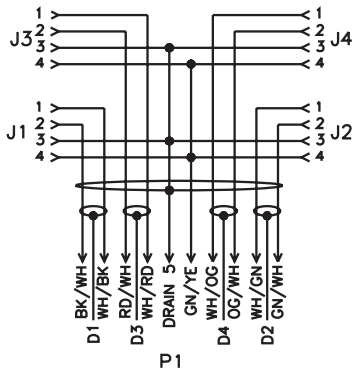
4-Port



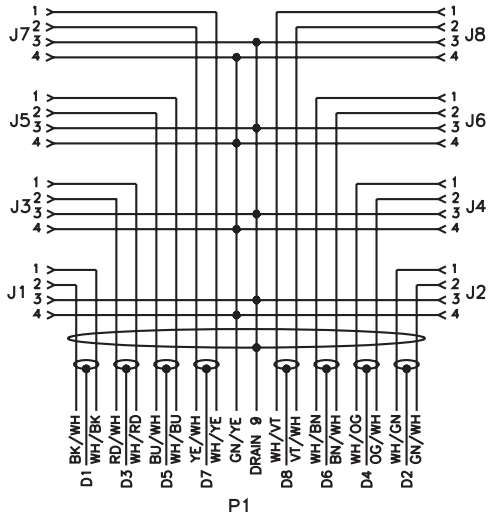
8-Port



4-Port



8-Port



multibox® *eurofast*® Nylon Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations or Unclassified Locations**
- **Blue Jacket Color May Be Used as Identification of Intrinsically Safe Circuits**

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4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port, Pin / Wire Color Port 1, Pin 1 WH/BK Port 1, Pin 2 BK/WH Port 2, Pin 1 WH/GN Port 2, Pin 2 GN/WH Port 3, Pin 1 WH/RD Port 3, Pin 2 RD/WH Port 4, Pin 1 WH/OG Port 4, Pin 2 OG/WH Ports 1-4, Pin 3 Drain Ports 1-4, Pin 4 GN/YE	P-4MB12-4-978-*	P-4MBV12-4-978-*
			P-4MB12-4-978-*/C	P-4MBV12-4-978-*/C

8-port, 1 Analog Signal Per Port, Common Ground and Shield

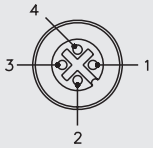
Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port glass-filled nylon junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port, Pin / Wire Color Port 1, Pin 1 WH/BK Port 1, Pin 2 BK/WH Port 2, Pin 1 WH/GN Port 2, Pin 2 GN/WH Port 3, Pin 1 WH/RD Port 3, Pin 2 RD/WH Port 4, Pin 1 WH/OG Port 4, Pin 2 OG/WH Port 5, Pin 1 WH/BU Port 5, Pin 2 BU/WH Port 6, Pin 1 WH/BN Port 6, Pin 2 BN/WH Port 7, Pin 1 WH/YE Port 7, Pin 2 YE/WH Port 8, Pin 1 WH/VT Port 8, Pin 2 VT/WH Ports 1-8, Pin 3 Drain Ports 1-8, Pin 4 GN/YE	P-8MB12-4-977-*	P-8MBV12-4-977-*
			P-8MB12-4-977-*/C	P-8MBV12-4-977-*/C

* Length in meters.

† Each circuit has dedicated drain wire not connected in the junction box.

Pinouts

Female



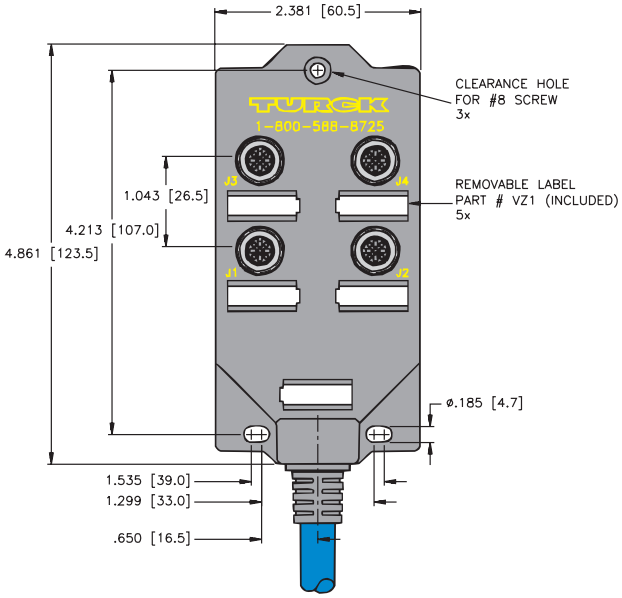
4-Pin

Specifications

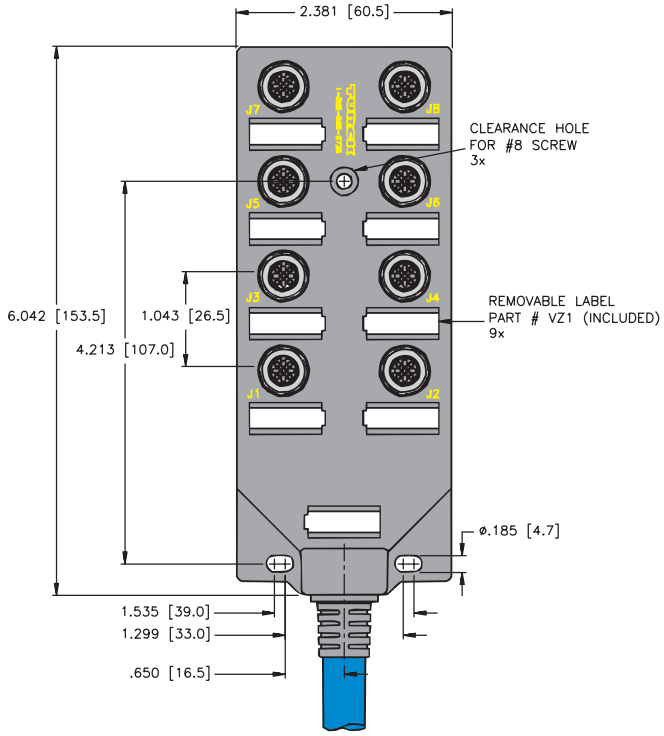
Housing:	Glass filled nylon.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), Nylon contact carriers.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 68.
Cable:	Blue PVC jacket, UL UTC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Electrical Rating:	Standard Version: 100 V, 4 A per conductor (use as ITC is limited to 3 A for 22 AWG conductors). "/C" Versions: 30 V, 600 mA

Dimensions

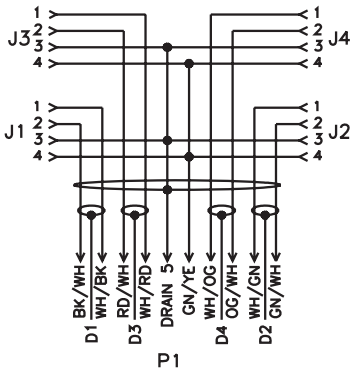
4-Port



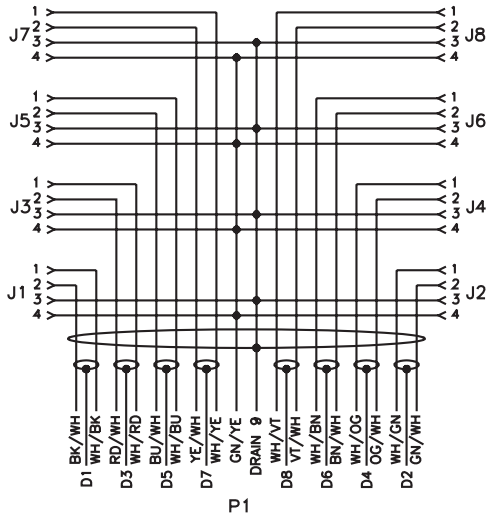
8-Port



4-Port



8-Port



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4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Ports 1-4, Pin 3 — Drain Ports 1-4, Pin 4 — GN/YE	P-VBM 40-960-*	P-VBMV 40-960-*
			P-VBM 40-415-*/C	P-VBMV 40-415-*/C

8-port, 1 Analog Signal Per Port, Common Ground and Shield

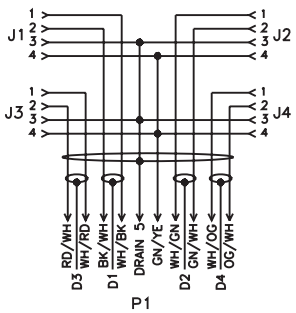
Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port, Pin — Wire Color Port 1, Pin 1 — WH/BK Port 1, Pin 2 — BK/WH Port 2, Pin 1 — WH/GN Port 2, Pin 2 — GN/WH Port 3, Pin 1 — WH/RD Port 3, Pin 2 — RD/WH Port 4, Pin 1 — WH/OG Port 4, Pin 2 — OG/WH Port 5, Pin 1 — WH/BU Port 5, Pin 2 — BU/WH Port 6, Pin 1 — WH/BN Port 6, Pin 2 — BN/WH Port 7, Pin 1 — WH/YE Port 7, Pin 2 — YE/WH Port 8, Pin 1 — WH/VT Port 8, Pin 2 — VT/WH Ports 1-8, Pin 3 — Drain Ports 1-8, Pin 4 — GN/YE	P-VBM 80-959-*	P-VBMV 80-959-*
			P-VBM 80-416-*/C	P-VBMV 80-416-*/C

* Length in meters.

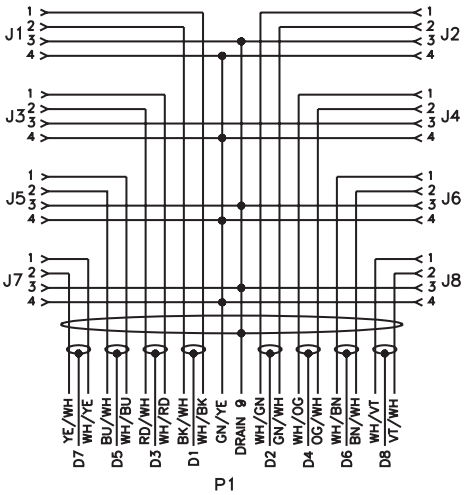
** Use with ***lokfast*** LOCK-EURO-G or LOCK-EURO-FW for port connectors in Class I, Division 2 applications.

† Each circuit has an additional dedicated drain wire not connected in the junction box.

4-Port



8-Port

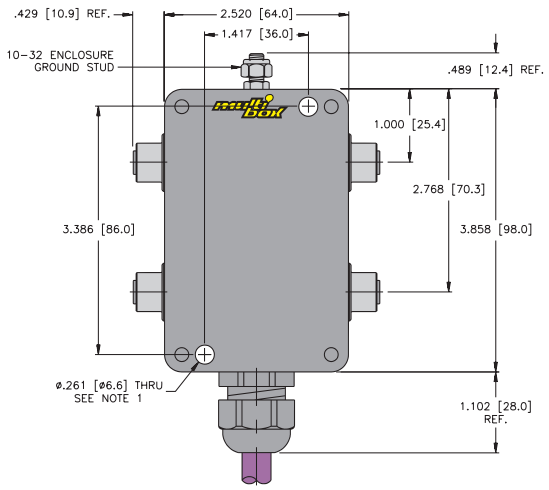


Specifications

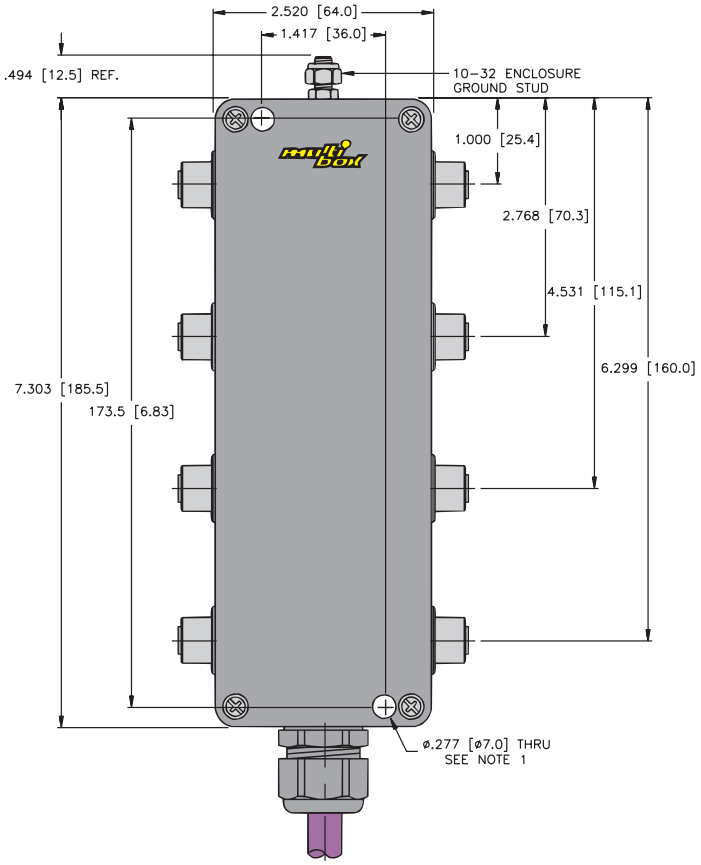
Housing:	Die-cast aluminum alloy.	
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.	
Temperature:	-30° to +80°C (-22° to +176°F).	
Contacts:	Gold plated brass.	
Protection:	IP 68.	
Cable:	Standard Version:	Plum PVC jacket, UL ITC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
	"/C" Versions:	Plum PUR jacket, UL ITC/PLTC, CSA CIC/CMX-Outdoor-CM, 300 V, 105°C, FT1.
Electrical Rating:	Standard Version:	250 V, 4 A per conductor (use as ITC is limited to 150 V, 3 A for 22 AWG conductors).
	"/C" Versions:	30 V, 600 mA

Dimensions

4-Port

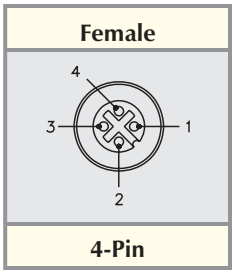


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts



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4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port glass-filled nylon junction box, ***eurofast*** port connectors, ***multifast®*** home-run connector	12-pin ***multifast*** connector	Port, Pin / Home-Run: Port 1, Pin 1 – 1; Port 1, Pin 2 – 2; Port 2, Pin 1 – 3; Port 2, Pin 2 – 4; Port 3, Pin 1 – 5; Port 3, Pin 2 – 6; Port 4, Pin 1 – 7; Port 4, Pin 2 – 8; NC – 9; NC – 10; Ports 1-4, Pin 3 – 11; Ports 1-4, Pin 4 – 12	P-4MB12-4-CS12 P-4MB12-4-CS12/C	P-4MBV12-4-CSV12 P-4MBV12-4-CSV12/C

See pages K85 - K92 for mating home-run cordsets.

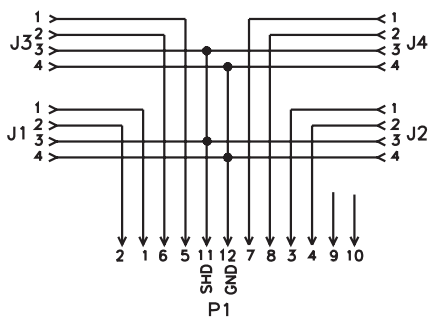
8-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port glass-filled nylon junction box, ***eurofast*** port connectors, ***multifast*** home-run connector	19-pin ***multifast*** connector	Port, Pin / Home-Run: Port 1, Pin 1 – 1; Port 1, Pin 2 – 2; Port 2, Pin 1 – 3; Port 2, Pin 2 – 4; Port 3, Pin 1 – 5; Ports 1-8, Pin 3 – 6; Port 3, Pin 2 – 7; Port 4, Pin 1 – 8; Port 4, Pin 2 – 9; Port 5, Pin 1 – 10; Port 5, Pin 2 – 11; Ports 1-8, Pin 4 – 12; Port 6, Pin 1 – 13; Port 6, Pin 2 – 14; Port 7, Pin 1 – 15; Port 7, Pin 2 – 16; Port 8, Pin 1 – 17; Port 8, Pin 2 – 18; NC – 19	P-8MB12-4-CS19 P-8MB12-4-CS19/C	P-8MBV12-4-CSV19 P-8MBV12-4-CSV19/C

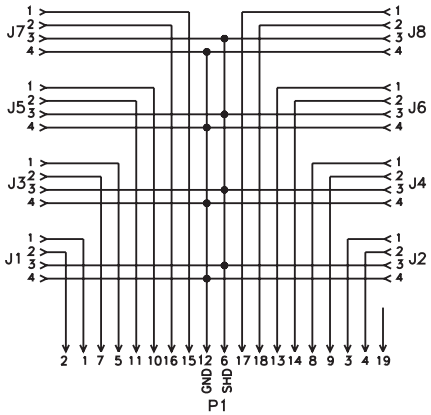
See pages K85 - K92 for mating home-run cordsets.

Wiring Diagrams

4-Port



8-Port

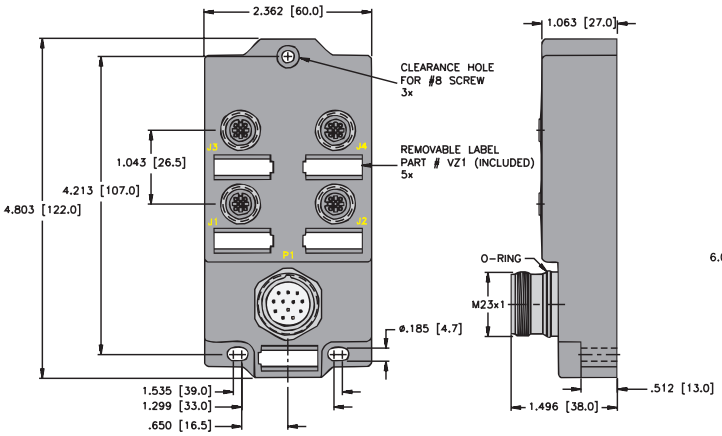


Specifications

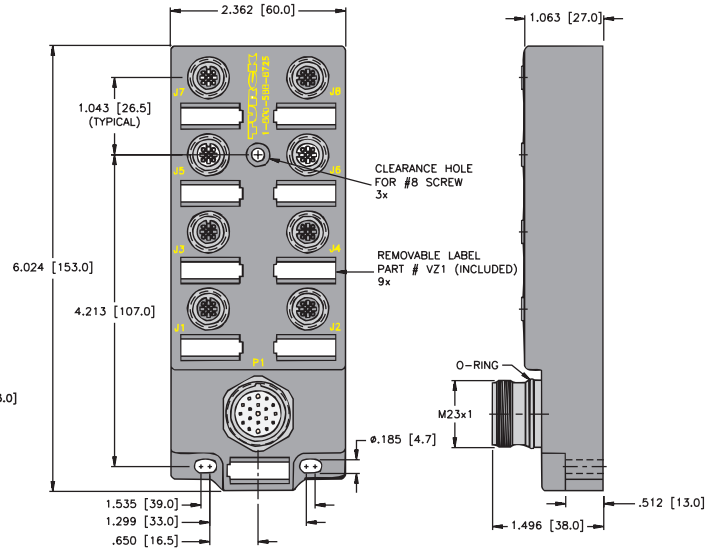
Housing:	Glass filled nylon.
Connectors	Nickel plated brass or 316 stainless steel housings (see table). Nylon contact carriers.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	Standard Version: 100 V, 4 A per conductor. "/C" Versions: 30 V, 600 mA

Dimensions

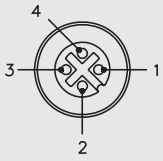
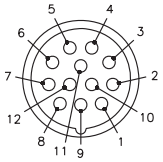
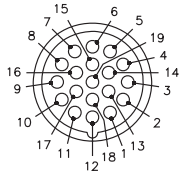
4-Port



8-Port



Pinouts

Female	Male	
		
4-Pin *eurofast*®	**12-Pin *multifast*®**	**19-Pin *multifast*®**

multibox® eurofast® Metal Junction Boxes

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4-port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port cast aluminum junction box, ***eurofast*** port connectors, ***multifast*** ® home-run connector, 1 analog signal per port	12-pin ***multifast*** connector	Pin, Port / Home-Run: Port 1, Pin 1 — 1; Port 1, Pin 2 — 2; Port 2, Pin 1 — 3; Port 2, Pin 2 — 4; Port 3, Pin 1 — 5; Port 3, Pin 2 — 6 Port, Pin / Home-Run: Port 4, Pin 1 — 7; Port 4, Pin 2 — 8; NC — 9; NC — 10; Ports 1-4, Pin 3 — 11; Ports 1-4, Pin 4 — 12	P-VBM 40-CS12 P-VBM 40-CS12/C	P-VBMV 40-CSV12 P-VBMV 40-CSV12/C

See pages K85 - K92 for mating home-run cordsets.

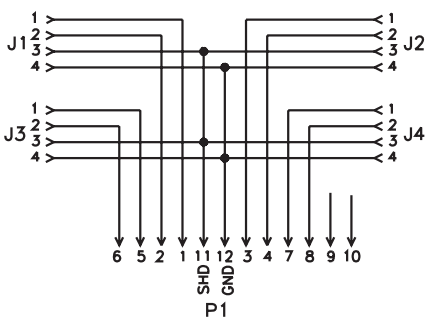
8-port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port cast aluminum junction box, ***eurofast*** port connectors, ***multifast*** home-run connector, 1 analog signal per port	19-pin ***multifast*** connector	Port, Pin / Home-Run: Port 1, Pin 1 — 1; Port 1, Pin 2 — 2; Port 2, Pin 1 — 3; Port 2, Pin 2 — 4; Port 3, Pin 1 — 5; Ports 1-8, Pin 3 — 6; Port 3, Pin 2 — 7; Port 4, Pin 1 — 8; Port 4, Pin 2 — 9 Port, Pin / Home-Run: Port 5, Pin 1 — 10; Port 5, Pin 2 — 11; Ports 1-8, Pin 4 — 12; Port 6, Pin 1 — 13; Port 6, Pin 2 — 14; Port 7, Pin 1 — 15; Port 7, Pin 2 — 16; Port 8, Pin 1 — 17; Port 8, Pin 2 — 18; NC — 19	P-VBM 80-CS19 P-VBM 80-CS19/C	P-VBMV 80-CSV19 P-VBMV 80-CSV19/C

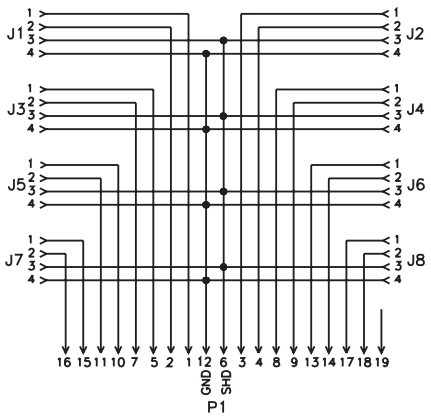
See pages K85 - K92 for mating home-run cordsets.

Wiring Diagrams

4-Port Diagram, 1 Analog Signal Per Port



8-Port Diagram, 1 Analog Signal Per Port

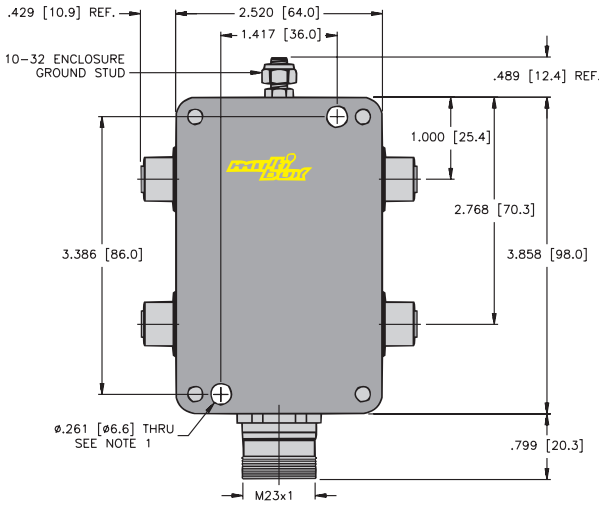


Specifications

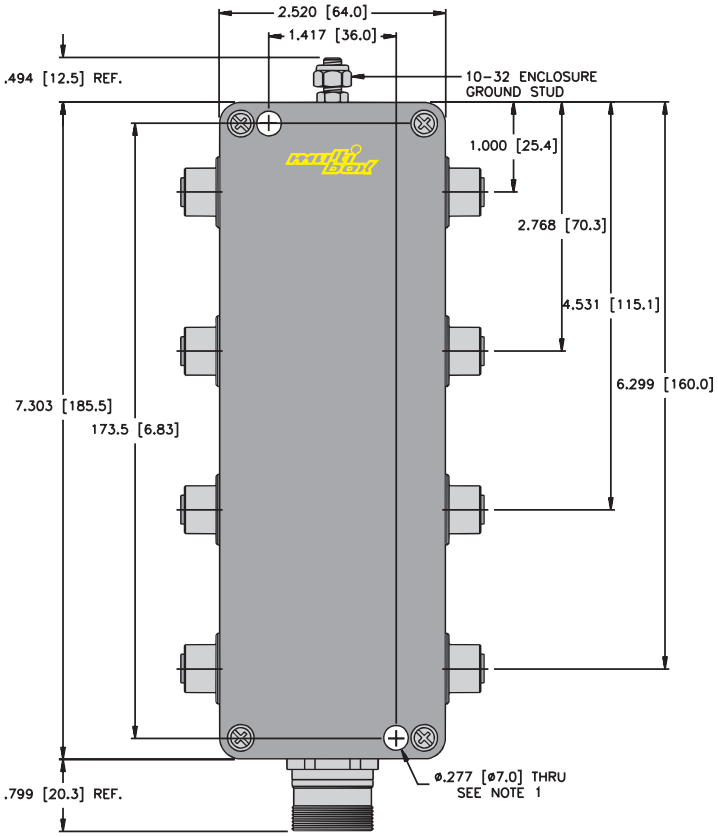
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	Standard Version: 12-pin: 250 V, 4 A per conductor.
	Standard Version: 12-pin: 250 V, 4 A per conductor.
	"/C" Versions: 30 V, 600 mA

Dimensions

4-Port

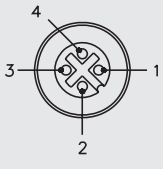
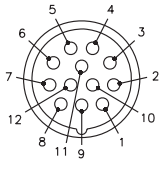
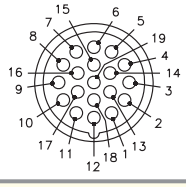


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts

Female	Male	
		
4-Pin *eurofast*®	**12-Pin *multifast*®**	**19-Pin *multifast***

multibox® minifast® Metal Junction Boxes w/Integral Home Run Cable

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations** or Unclassified Locations**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.
"/C" versions CSA certified for installation in hazardous locations when installed per **TURCK** Control Drawing Ni-2.404(www.turck.com/fmcd) using certified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
4-port cast aluminum junction box, ***minifast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port 1, Pin 1	WH/BK	Port 3, Pin 2	RD/WH	P-4 RKF 40-960-*	P-4 RKFV 40-960-*
		Port 1, Pin 2	BK/WH	Port 4, Pin 1	WH/OG		
		Port 2, Pin 1	WH/GN	Port 4, Pin 2	OG/WH	P-4 RKF 40-415-*/C	P-4 RKFV 40-415-*/C
		Port 2, Pin 2	GN/WH	Ports 1-4, Pin 3	Drain		
		Port 3, Pin 1	WH/RD	Ports 1-4, Pin 4	GN/YE		

8-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
		Port, Pin	Wire Color	Port, Pin	Wire Color		
8-port cast aluminum junction box, ***minifast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port 1, Pin 1	WH/BK	Port 5, Pin 2	BU/WH	P-8 RKF 40-959-*	P-8 RKFV 40-959-*
		Port 1, Pin 2	BK/WH	Port 6, Pin 1	WH/BN		
		Port 2, Pin 1	WH/GN	Port 6, Pin 2	BN/WH		
		Port 2, Pin 2	GN/WH	Port 7, Pin 1	WH/YE	P-8 RKF 40-416-*/C	P-8 RKFV 40-416-*/C
		Port 3, Pin 1	WH/RD	Port 7, Pin 2	YE/WH		
		Port 3, Pin 2	RD/WH	Port 8, Pin 1	WH/VT		
		Port 4, Pin 1	WH/OG	Port 8, Pin 2	VT/WH		
		Port 4, Pin 2	OG/WH	Ports 1-8, Pin 3	Drain		
		Port 5, Pin 1	WH/BU	Ports 1-8, Pin 4	GN/YE		

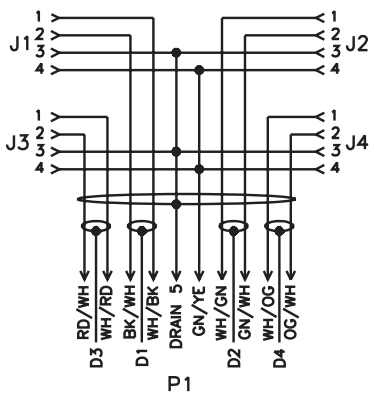
* Length in meters.

** Use with ***lokfast*** LOCK-MINI or LOCK-MINI-FW for port connectors in Class I, Division 2 applications and for mating home run cable use "L" and "T" versions.

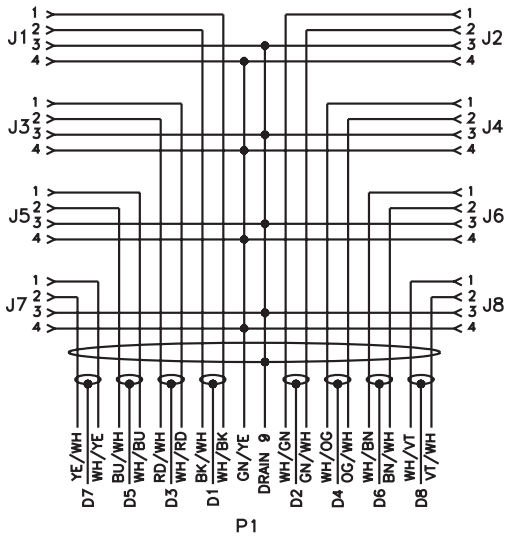
† Each circuit has dedicated drain wire not connected in the junction box.

Wiring Diagrams

4-Port



8-Port

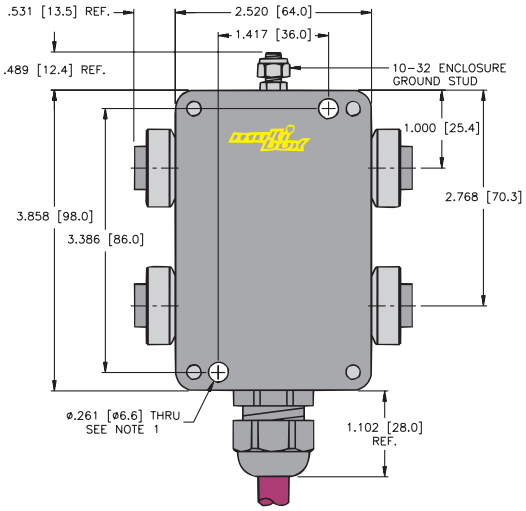


Specifications

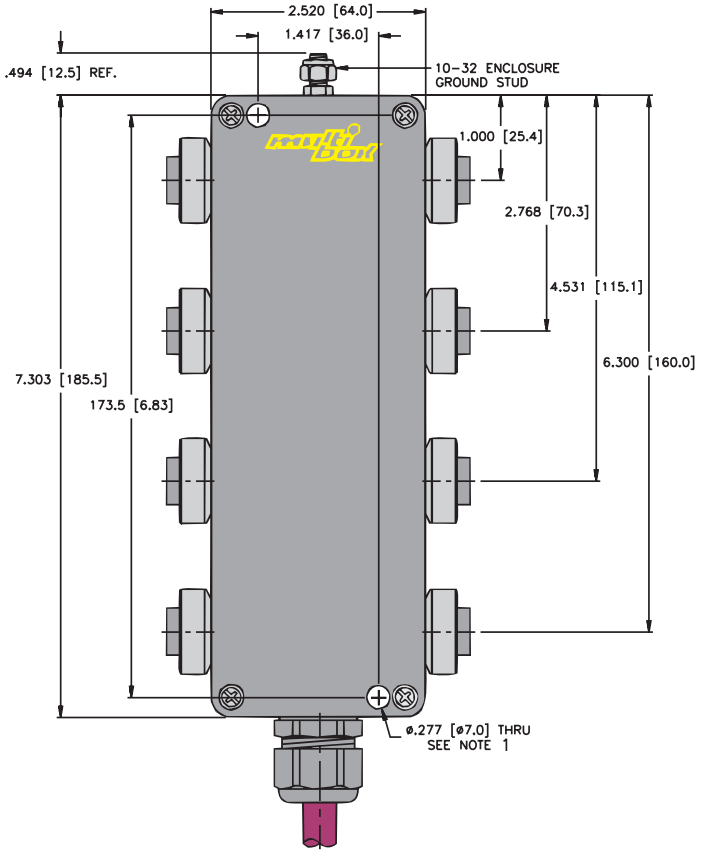
Housing:	Die-cast aluminum alloy.	
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.	
Temperature:	-30° to +80°C (-22° to +176°F).	
Contacts:	Gold plated brass.	
Cable:	Standard Version:	Plum PVC jacket, UL ITC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
	"/C" Versions:	Plum PUR jacket, UL ITC/PLTC, CSA CIC/CMX-Outdoor-CM, 300 V, 105°C, FT1.
Protection:	IP 67.	
Electrical Rating:	Standard Version:	300 V, 4 A per conductor (use as ITC is limited to 150 V, 3 A for 22 AWG conductors).
	"/C" Versions:	30 V, 600 mA

Dimensions

4-Port

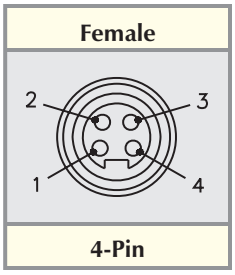


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts



multibox® minifast® Metal Junction Boxes

- **Consolidation of 2-wire Analog or HART Control Circuits in Hazardous Locations* or Unclassified Locations**

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.
"/C" versions CSA certified for installation in hazardous locations when installed per **TURCK** Control Drawing Ni-2.404(www.turck.com/fmcd) using certified accessory equipment.

4-port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** ® home-run connector, 1 analog signal per port	12-pin ***multifast*** connector, 9 conductors plus drain	Port, Pin / Home Run: Port 1, Pin 1 / 1; Port 1, Pin 2 / 2; Port 2, Pin 1 / 3; Port 2, Pin 2 / 4; Port 3, Pin 1 / 5; Port 3, Pin 2 / 6 Port, Pin / Home Run: Port 4, Pin 1 / 7; Port 4, Pin 2 / 8; NC / 9; NC / 10; Ports 1-4, Pin 3 / 11; Ports 1-4, Pin 4 / 12	P-4 RKF 40-CS12 P-4 RKF 40-CS12/C	P-4 RKFV 40-CSV12 P-4 RKFV 40-CSV12/C

See pages K85 - K92 for mating home run cordsets.

8-port, Common Ground and Shield

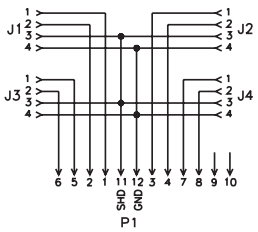
Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** home-run connector, 1 analog signal per port	19-pin ***multifast*** connector, 17 conductors plus drain	Port, Pin / Home Run: Port 1, Pin 1 / 1; Port 1, Pin 2 / 2; Port 2, Pin 1 / 3; Port 2, Pin 2 / 4; Port 3, Pin 1 / 5; Ports 1-8, Pin 3 / 6; Port 3, Pin 2 / 7; Port 4, Pin 1 / 8; Port 4, Pin 2 / 9 Port, Pin / Home Run: Port 5, Pin 1 / 10; Port 5, Pin 2 / 11; Ports 1-8, Pin 4 / 12; Port 6, Pin 1 / 13; Port 6, Pin 2 / 14; Port 7, Pin 1 / 15; Port 7, Pin 2 / 16; Port 8, Pin 1 / 17; Port 8, Pin 2 / 18; NC / 19	P-8 RKF 40-CS19 P-8 RKF 40-CS19/C	P-8 RKFV 40-CSV19 P-8 RKFV 40-CSV19/C

* Use with ***lokfast*** LOCK-MINI or LOCK-MINI-FW for port connectors in Class I, Division 2 applications and for mating Home-Run cable use "L" and "T" versions.

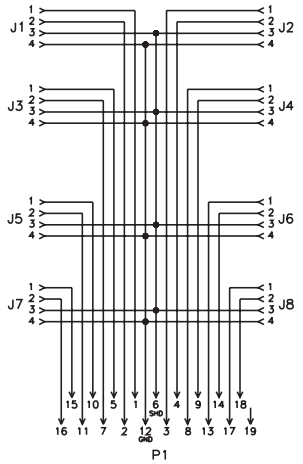
See pages K85 - K92 for mating home run cordsets.

Wiring Diagrams

4-Port Diagram, 1 Analog Signal Per Port



8-Port Diagram, 1 Analog Signal Per Port

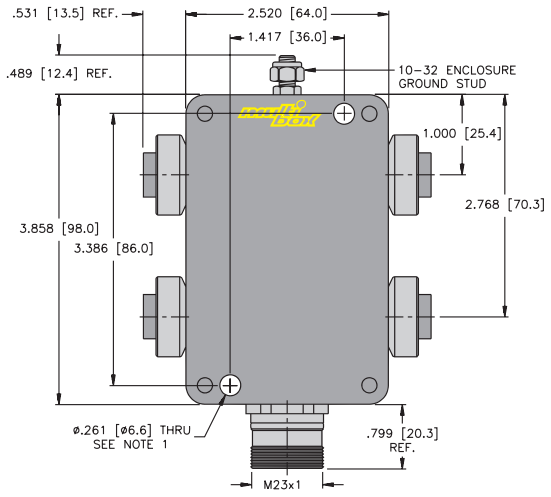


Specifications

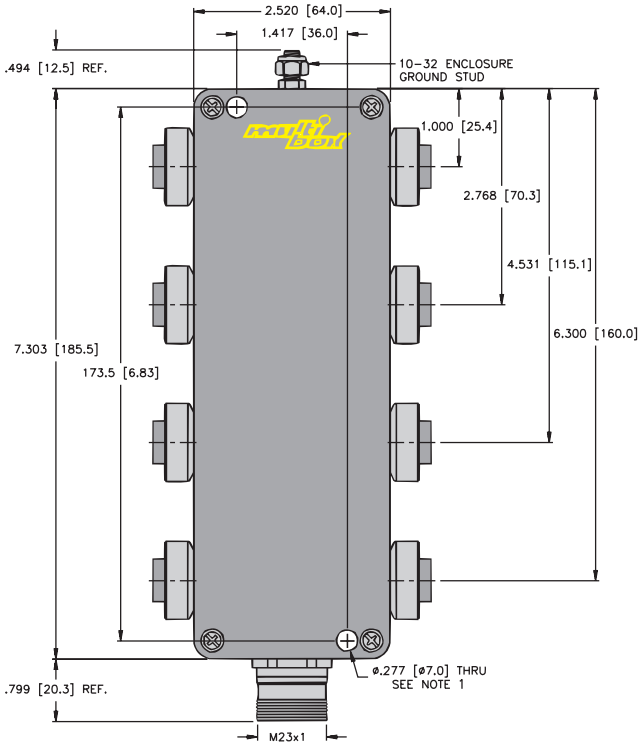
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	Standard Version: 12-pin: 300 V, 4 A per conductor. 19-pin: 150 V, 5 A per conductor. "/C" Versions: 30 V, 600 mA

Dimensions

4-Port

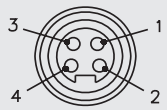
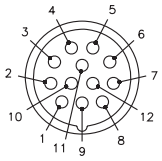
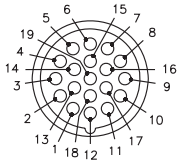


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts

Female	Male	
		
4-Pin *minifast*®	**12-Pin *multifast*®**	**19-Pin *multifast***

multibox® eurofast® Metal Junction Boxes w/Integral Home Run Cable

- **Consolidation of Analog or Discrete Circuits in Hazardous Locations or Unclassified Locations**
- **Blue Jacket Color may be used as Identification of Intrinsically Safe Circuits**

FM APPROVED

FM approved for installation in hazardous locations when installed per **TURCK** Control Drawing QCF-00147 (www.turck.com/fmcd) using specified accessory equipment.
"/C" versions CSA certified for installation in hazardous locations when installed per **TURCK** Control Drawing Ni-2.404(www.turck.com/fmcd) using certified accessory equipment.

4-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
4-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 4/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 10.0 mm OD	Port, Pin	Wire Color	Port, Pin	Wire Color	P-VBM 40-978-*	P-VBMV 40-978-*
		Port 1, Pin 1	WH/BK	Port 3, Pin 2	RD/WH		
		Port 1, Pin 2	BK/WH	Port 4, Pin 1	WH/OG		
		Port 2, Pin 1	WH/GN	Port 4, Pin 2	OG/WH		
		Port 2, Pin 2	GN/WH	Ports 1-4, Pin 3	Drain	P-VBM 40-978-*/C	P-VBMV 40-978-*/C
		Port 3, Pin 1	WH/RD	Ports 1-4, Pin 4	GN/YE		

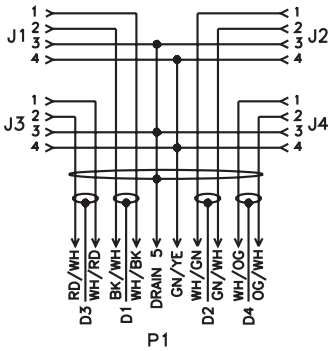
8-port, 1 Analog Signal Per Port, Common Ground and Shield

Application	Specifications	Pinout				Nickel Plated Brass	Stainless Steel
8-port cast aluminum junction box, ***eurofast*** port connectors, integral home-run cable	Home-run cable with 8/22 AWG shielded twisted pairs, each with 22 AWG drain†, plus overall shield with 22 AWG drain and 18 AWG overall ground, 12.0 mm OD	Port, Pin	Wire Color	Port, Pin	Wire Color	P-VBM 80-977-*	P-VBMV 80-977-*
		Port 1, Pin 1	WH/BK	Port 6, Pin 1	WH/BN		
		Port 1, Pin 2	BK/WH	Port 6, Pin 2	BN/WH		
		Port 2, Pin 1	WH/GN	Port 7, Pin 1	WH/YE		
		Port 2, Pin 2	GN/WH	Port 7, Pin 2	YE/WH		
		Port 3, Pin 1	WH/RD	Port 8, Pin 1	WH/VT		
		Port 3, Pin 2	RD/WH	Port 8, Pin 2	VT/WH		
		Port 4, Pin 1	WH/OG	Ports 1-8, Pin 3	Drain	P-VBM 80-977-*/C	P-VBMV 80-977-*/C
		Port 4, Pin 2	OG/WH	Ports 1-8, Pin 4	GN/YE		
		Port 5, Pin 1	WH/BU				
		Port 5, Pin 2	BU/WH				

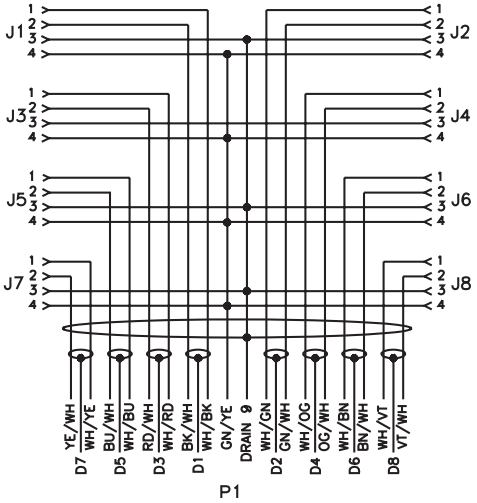
* Length in meters.
† Each circuit has dedicated drain wire not connected in the junction box.

Wiring Diagrams

4-Port



8-Port

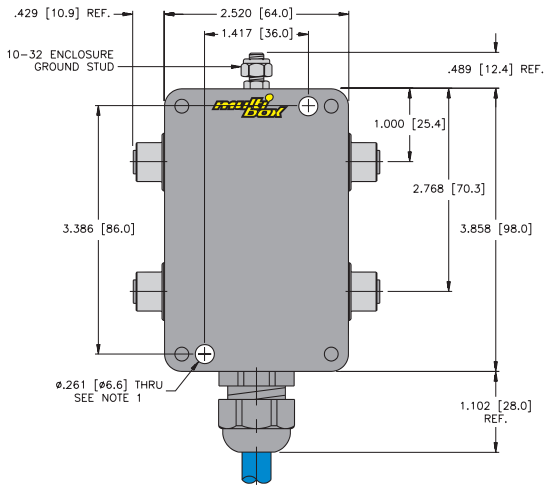


Specifications

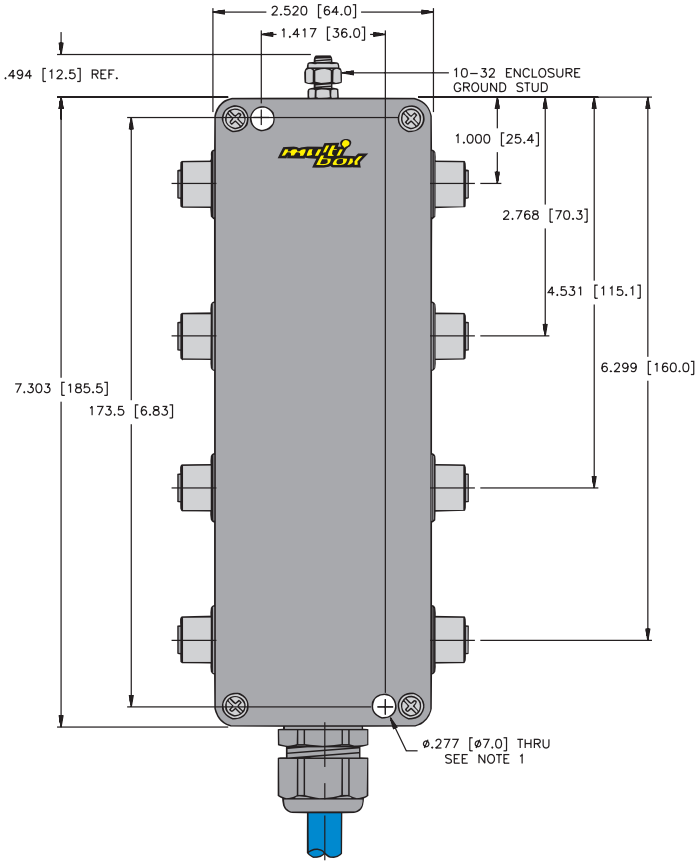
Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 68.
Cable:	Blue PVC jacket, UL ITC/PLTC/AWM, CSA CMX-Outdoor/CMG/AWM FT4, 300 V, 105°C.
Electrical Rating:	Standard Version: 250 V, 4 A per conductor (use as ITC is limited to 150 V, 3 A for 22 AWG conductors). "/C" Versions: 30 V, 600 mA

Dimensions

4-Port

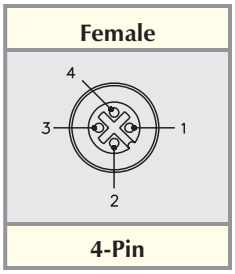


8-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts



multibox® eurofast® Metal Junction Boxes

- **Consolidation of Analog or Discrete Circuits in Hazardous Locations** or Unclassified Locations**

FM APPROVED

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"/C" versions CSA certified for installation in hazardous locations when installed per **TURCK** Control Drawing Ni-2.404(www.turck.com/fmcd) using certified accessory equipment.

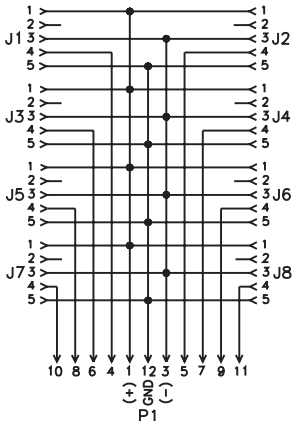
8-port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
8-port cast aluminum junction box, ***eurofast*** port connectors, ***multifast*** home-run connector, 1 discrete signal per port	12-pin ***multifast*** connector	Port, Pin / Home-Run: V+ 1; NC 2; V- 3; Port 1, Pin 4 4; Port 2, Pin 4 5; Port 3, Pin 4 6; Port 4, Pin 4 7; Port 5, Pin 4 8; Port 6, Pin 4 9; Port 7, Pin 4 10; Port 8, Pin 4 11; Ports 1-8, Pin 5 12	P-VBM 84-CS12	P-VBMV 84-CSV12
			P-VBM 84-CS12/C	P-VBMV 84-CSV12/C

** Use with ***lokfast*** LOCK-EURO-G for port connectors in Class I, Division 2 applications and for mating Home-Run cable use "L" and "T" versions
See page K173 for mating home run cable.

Wiring Diagram

8-Port Diagram, 1 Discrete Signal Per Port

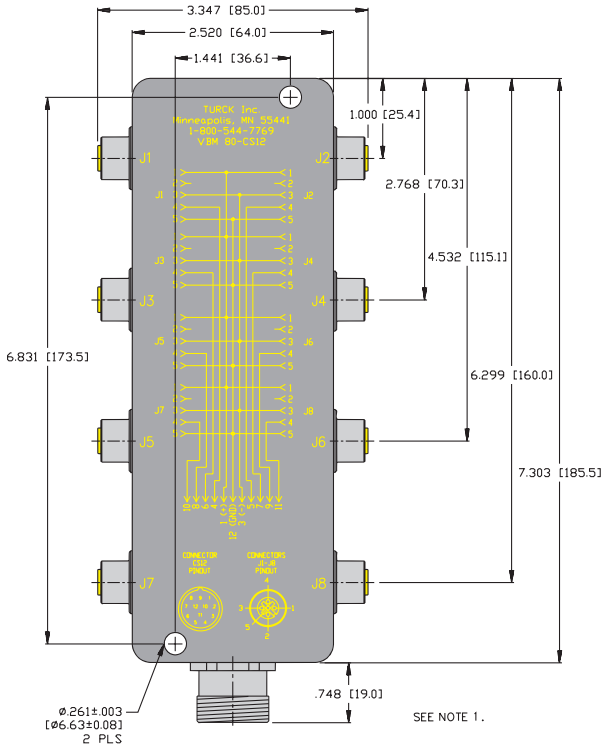


Specifications

Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	Standard Version: 150 V, 4 A per conductor.
	"/C" Versions: 30 V, 600 mA

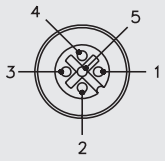
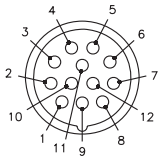
Dimensions

4-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included).

Pinouts

Female	Male
	
4-Pin *eurofast*®	**12-Pin *multifast*®**

multibox® minifast® Metal Junction Boxes

- **Consolidation of Analog or Discrete Circuits in Hazardous Locations or Unclassified Locations**

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"/C" versions CSA certified for installation in hazardous locations when installed per **TURCK** Control Drawing Ni-2.404(www.turck.com/fmcd) using certified accessory equipment.

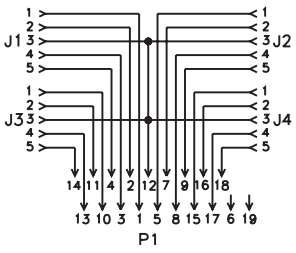
4-port, Common Ground and Shield

Application	Specifications	Pinout	Nickel Plated Brass	Stainless Steel
4-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** ® home-run connector, 4-wire discrete signal per port	19-pin ***multifast*** connector, 19 conductors	Port, Pin / Home-Run: Port 1, Pin 1 – 1; Port 1, Pin 2 – 2; Port 1, Pin 4 – 3; Port 1, Pin 5 – 4; Port 2, Pin 1 – 5; NC – 6; Port 2, Pin 2 – 7; Port 2, Pin 4 – 8; Port 2, Pin 5 – 9; Port 3, Pin 1 – 10; Port 3, Pin 2 – 11; Ports 1-8, Pin 3 – 12; Port 3, Pin 4 – 13; Port 3, Pin 5 – 14; Port 4, Pin 1 – 15; Port 4, Pin 2 – 16; Port 4, Pin 4 – 17; Port 4, Pin 5 – 18; NC – 19	P-4 RKF 56-CS19 P-4 RKF 56-CS19/C	P-4 RKFV 56-CSV19 P-4 RKFV 56-CSV19/C
4-port cast aluminum junction box, ***minifast*** port connectors, ***multifast*** home-run connector, 2 analog signals per port	19-pin ***multifast*** connector, 16 conductors plus drain	Port, Pin / Home-Run: Port 1, Pin 1 – 1; Port 1, Pin 2 – 2; Port 1, Pin 4 – 3; Port 1, Pin 5 – 4; Port 2, Pin 1 – 5; Shield – 6; Port 2, Pin 2 – 7; Port 2, Pin 4 – 8; Port 2, Pin 5 – 9; Port 3, Pin 1 – 10; Port 3, Pin 2 – 11; Ground – 12; Port 3, Pin 4 – 13; Port 3, Pin 5 – 14; Port 4, Pin 1 – 15; Port 4, Pin 2 – 16; Port 4, Pin 4 – 17; Port 4, Pin 5 – 18; NC – 19	P-4 RKF 66-CS19 P-4 RKF 66-CS19/C	P-4 RKFV 66-CSV19 P-4 RKFV 66-CSV19/C

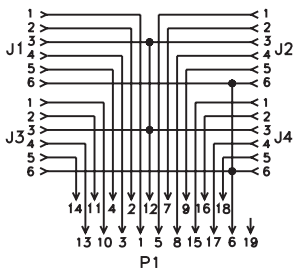
See pages K85 and K89 for mating home run cordsets.

Wiring Diagrams

4-Wire Discrete



2 Analog Signals Per Port

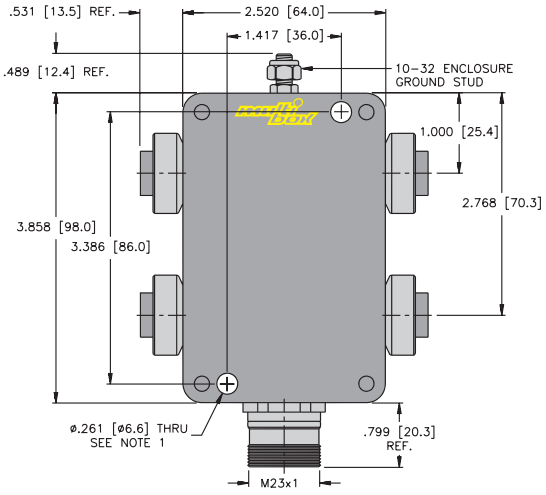


Specifications

Housing:	Die-cast aluminum alloy.
Connectors	Nickel plated brass or 316 stainless steel housings (see table), oil resistant PUR contact carrier.
Temperature:	-30° to +80°C (-22° to +176°F).
Contacts:	Gold plated brass.
Protection:	IP 67.
Electrical Rating:	Standard Version: 150 V, 4 A per conductor.
	"/C" Versions: 30 V, 600 mA

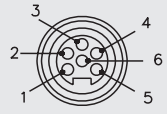
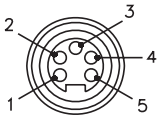
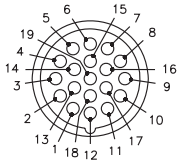
Dimensions

4-Port



Notes:
1. Clearance hole for 1/4-20 mounting screws (2 not included)

Pinouts

Female		Male
		
6-Pin *minifast*®	**5-Pin *minifast***	**19-Pin *multifast***