

Industrial Ethernet Connectors

XS5/XS6

Support for Ethernet/IP, Ether-CAT, and Other Popular Networks Based on Ethernet

- A lineup of Tough RJ45 Connectors for use outside of panels and Environment-resistance Connectors with IP67 protection (M12).
- RJ45 Assembly Connectors are available for easy wiring onsite.
- SmartClick Connectors are used on Environment-resistance Connectors (M12) and provide compatibility with traditional screw connectors for one-touch (1/8 turn) connection.
- AWG22 cables that are suitable for wiring outside of panels are used for all models.
- More variations with the addition of Cables with Right-angle Connectors and Straight Terminals for PCBs.



Ordering Information

Appearance	Type	Cable length (m)	Model
	Cable with Connector on One End (M12 straight)	0.5	XS5H-T421-BM0-K
		1	XS5H-T421-CM0-K
		2	XS5H-T421-DM0-K
		3	XS5H-T421-EM0-K
		5	XS5H-T421-GM0-K
		10	XS5H-T421-JM0-K
		15	XS5H-T421-KM0-K
	Cable with Connectors on Both Ends (M12 straight/M12 straight)	0.5	XS5W-T421-BM2-K
		1	XS5W-T421-CM2-K
		2	XS5W-T421-DM2-K
		3	XS5W-T421-EM2-K
		5	XS5W-T421-GM2-K
		10	XS5W-T421-JM2-K
		15	XS5W-T421-KM2-K
	Cable with Connectors on Both Ends (M12 straight/RJ45)	0.3	XS5W-T421-AMC-K
		0.5	XS5W-T421-BMC-K
		1	XS5W-T421-CMC-K
		2	XS5W-T421-DMC-K
		3	XS5W-T421-EMC-K
		5	XS5W-T421-GMC-K
		10	XS5W-T421-JMC-K
		15	XS5W-T421-KMC-K
 Available soon.	Cable with Connector on One End (M12 right-angle)	0.5	XS5H-T422-BM0-K
		1	XS5H-T422-CM0-K
		2	XS5H-T422-DM0-K
		3	XS5H-T422-EM0-K
		5	XS5H-T422-GM0-K
		10	XS5H-T422-JM0-K
		15	XS5H-T422-KM0-K
 Available soon.	Cable with Connectors on Both Ends (M12 right-angle/M12 right-angle)	0.5	XS5W-T422-BM2-K
		1	XS5W-T422-CM2-K
		2	XS5W-T422-DM2-K
		3	XS5W-T422-EM2-K
		5	XS5W-T422-GM2-K
		10	XS5W-T422-JM2-K
		15	XS5W-T422-KM2-K

Appearance	Type		Cable length (m)	Model
 Available soon.	Cable with Connectors on Both Ends (M12 right-angle/RJ45)		0.3	XS5W-T422-AMC-K
			0.5	XS5W-T422-BMC-K
			1	XS5W-T422-CMC-K
			2	XS5W-T422-DMC-K
			3	XS5W-T422-EMC-K
			5	XS5W-T422-GMC-K
			10	XS5W-T422-JMC-K
			15	XS5W-T422-KMC-K
	Cable with Connectors on Both Ends (RJ45/RJ45)		0.3	XS5W-T421-AMD-K
			0.5	XS5W-T421-BMD-K
			1	XS5W-T421-CMD-K
			2	XS5W-T421-DMD-K
			3	XS5W-T421-EMD-K
			5	XS5W-T421-GMD-K
			10	XS5W-T421-JMD-K
			15	XS5W-T421-KMD-K
	RJ45 Assembly Connector		---	XS6G-T421-1
	M12 Connector for Panel Mounting	Rear locking	0.5	XS5P-T426-5
		Front locking	0.5	XS5P-T427-5
 NEW	M12 Panel-mounting PCB Straight Terminals		---	XS5P-T426-1

Specifications

Type	Cable with Connector on One End (M12)	Cable with Connectors on Both Ends (M12/M12)	Cable with Connectors on Both Ends (M12/RJ45)	Cable with Connectors on Both Ends (RJ45/RJ45)	RJ45 Assembly Connector	M12 Connector for Panel Mounting	M12 Panel-mounting PCB Straight Terminals
Item Model	XS5H -T42□-□M0-K	XS5W -T42□-□M2-K	XS5W -T42□-□MC-K	XS5W -T421-□MD-K	XS6G -T421-1	XS5P-T42□-5	XS5P -T426-1
Rated current	3 A		2.5 A			3 A	4 A
Rated voltage	30 V						125 VDC
Contact resistance	40 mΩ max.						40 mΩ max.
Insulation resistance	1,000 MΩ min.			500 MΩ min.	1,000 MΩ min.		1,000 MΩ min.
Withstand voltage	1,000 VAC for 60 s (leak current: 1 mA max.)						1,500 VAC for 60 s (leakage current: 1 mA max.)
Ambient operating temperature	-25 to 70°C				-40 to 70°C	-25 to 70°C	-25 to 70°C
Ambient storage temperature	-25 to 70°C				-40 to 70°C	-25 to 70°C	-25 to 70°C
Protective structure	M12: IEC IP67, RJ45: IEC IP20						IEC IP67

Materials and Finish

Connectors

Item	Model	M12			RJ45
		XS5H and XS5W	XS5P-T42?-5	XS5P-T426-1	XS5W and XS6G
Contact blocks		PBT resin (UL94V-0)/light gray	PBT resin (UL94V-0)/light gray	PA resin (UL94V-0)/black	PA resin (UL94V-0)/black
Contacts		Phosphor bronze/nickel base, gold plated (0.4 μm)	Phosphor bronze/nickel base, gold plated (0.4 μm)	Bronze/nickel base, gold plated (0.4 μm)	Phosphor bronze/nickel base, gold plated (1.4 μm)
Anchors		Zinc diecast/nickel plating	Zinc diecast/nickel plating	Zinc diecast/nickel plating (5 μm)	---
Anchors (tabs)		SUS	---	---	---
Cover		Soft PBT (UL94 V-0)	---	---	---
Sealing resin		---	Epoxy resin	---	---
O-rings		Rubber	Rubber	Rubber	---
Grounding fixture		---	---	Phosphor bronze/nickel base, tin plated (2.0 μm)	---
Anchor cover		---	---	SUS	---
Nuts		---	Bronze/nickel plated (1.5 μm)	Bronze/nickel plated (1.5 μm)	---

Cables

Specifications	UL CM PVC (double shielding) Cat. 5E
Cores and colors	AWG22 (0.26/7): Yellow, orange, white, and blue
Outer diameter	6.5 mm
Sheath color	Light blue

Note: Connectors with cables only. (XS5H and XS5W)

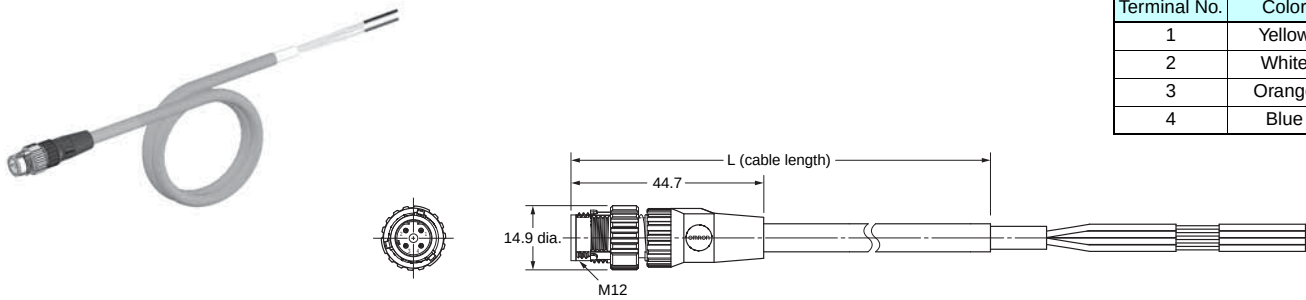
■ Dimensions

(Unit: mm)

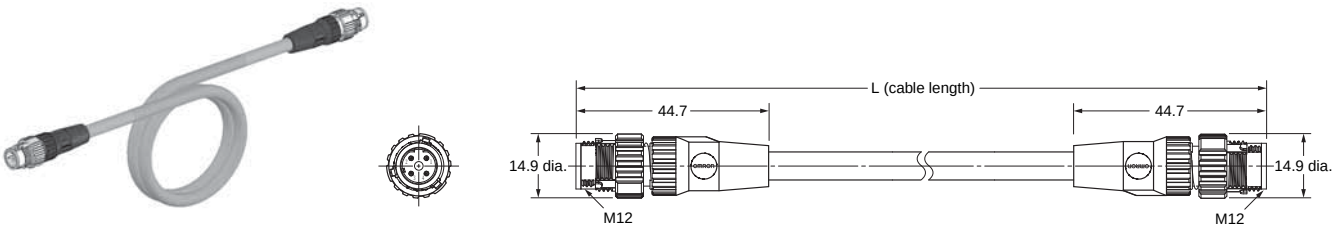
● Cable with Connector on One End (M12 Straight)
XS5H-T421-□M0-K

Wiring

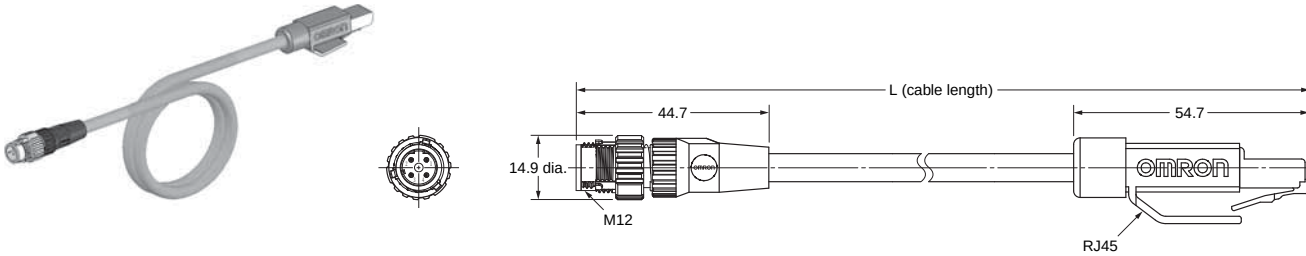
Terminal No.	Color
1	Yellow
2	White
3	Orange
4	Blue



● Cable with Connectors on Both Ends (M12 Straight/M12 Straight)
XS5W-T421-□M2-K



● Cable with Connectors on Both Ends (M12 Straight/RJ45)
XS5W-T421-□MC-K



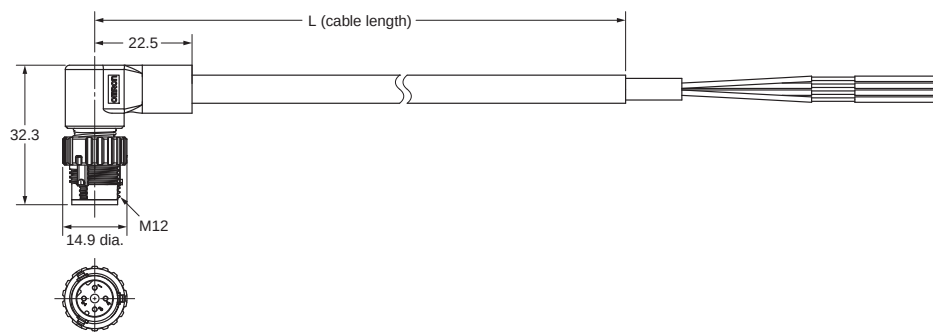
● Cable with Connector on One End (M12 Right-angle)

XS5H-T422-□M0-K

Available soon.

Wiring

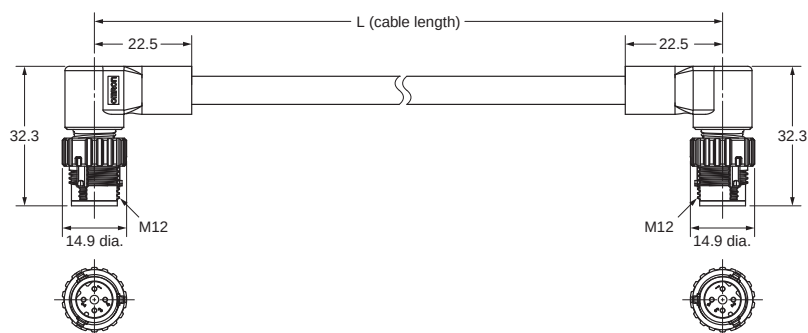
Terminal No.	Color
1	Yellow
2	White
3	Orange
4	Blue



● Cable with Connectors on Both Ends (M12 Right-angle/M12 Right-angle)

XS5W-T422-□M2-K

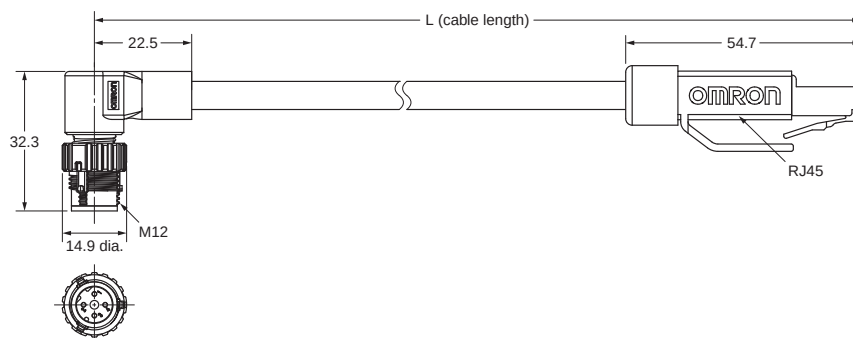
Available soon



● Cable with Connectors on Both Ends (M12 Right-angle/RJ45)

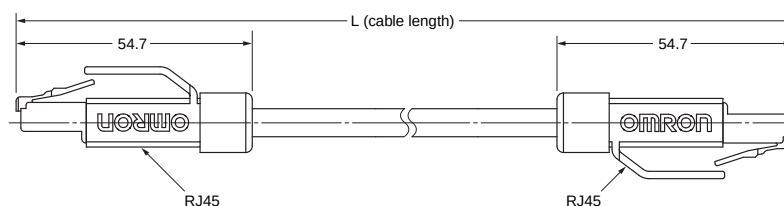
XS5W-T422-□M2-K

Available soon

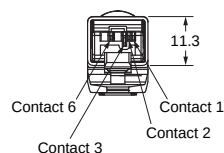
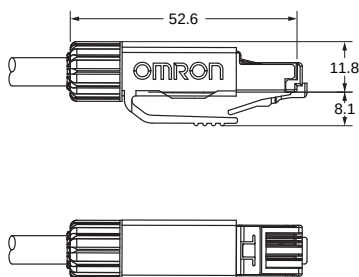


● Cable with Connectors on Both Ends (RJ45/RJ45)

XS5W-T421-□MD-K



● Assembly Connector (RJ45) XS6G-T421-1

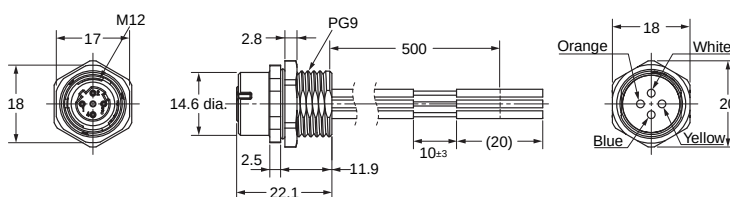


Applicable wires
6.1 to 6.9 dia.
Stranded wires: AWG22 to AWG24
Solid wires: AWG22 to AWG23

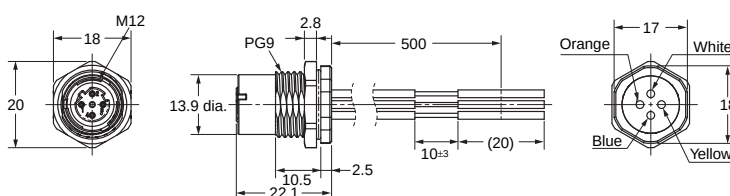
● M12 Connector for Panel mounting XS5P-T421-5



XS5P-T426-5 (Rear Locking)



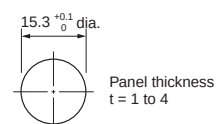
XS5P-T427-5 (Front Locking)



Wiring

Terminal No.	Color
1	Yellow
2	White
3	Orange
4	Blue

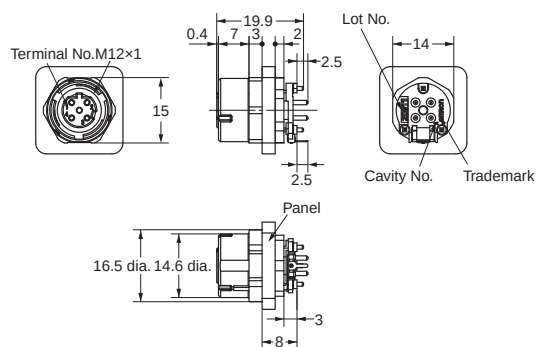
Panel Cutout Dimension



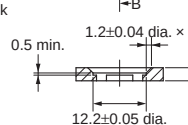
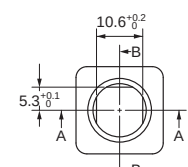
Note 1: The panel cutout dimension is the same for Front-locking and Rear-locking Connectors.

Note 2: Rotational positioning is not possible for connector rotation.

● Panel-mounting PCB Straight Terminals (M12) XS5P-T426-1



Mounting Hole Dimensions (D Cut Structure)



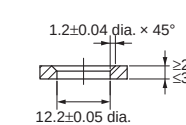
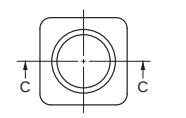
Cross-section Diagram A-A

Cross-section Diagram B-B

Cross-section Diagram C-C

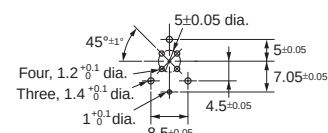
Cross-section Diagram D-D

Mounting Hole Dimensions



Cross-section Diagram C-C

Panel Processing Dimensions



Assembly Procedure

● RJ45 Assembly Connectors

XS6G-T421-1

1. Pass the cable through the cable clamp and the connector housing
2. Strip the cable sheath and ground braiding to the correct lengths.
3. Follow the color codes and prepare to insert the wires into the splice piece.
4. Insert the wires into the splice piece for the length of the splice piece.
5. Place the splice piece into the RJ45 data module and engage it.
6. Place the data module and the splice piece on the IDC assembly housing.
7. Press the data module and the IDC assembly housing together and use pliers or a similar device to make the insulation displacement contact.
8. Remove the data module from the IDC assembly housing.
9. Place the upper screen plate on the data module and press it over the ground braiding of the cable.
10. Place the lower screen plate on the bottom of the data module, align it with the upper screen plate, and latch it until you hear it click into place.
11. Slide the housing that you placed around the cable in step 1 up to the data module and latch it until you hear it click into place.
12. Tighten the cable clamp.



Pin Assignments

Pin Assignments for Fast Ethernet 10/100 Mbps

Function/Signal	Wire color			Pin No.
	Industrial Ethernet	EIA/TIA 568A	EIA/TIA 568B	
Transmission Data+/TD+	YE	WH/GN	WH/OG	1
Transmission Data-/TD-	OG	GN	OG	2
Receiver Data/RD+	WH	WH/OG	WH	3
Receiver Data/RD-	BU	OG	GN	6



● M12 Panel-mounting PCB Straight Terminals

XS5P-T426-1

Confirming the Number of Parts

The following four parts are included in the package when it is delivered.

Panel-mounting Parts

1. Anchor

2. O-Ring

3. Nut

PCB-mounting Part

4. Connector

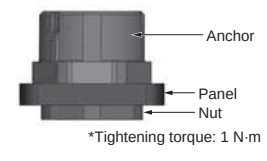
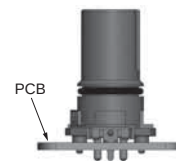


Assembly Procedure

1. Mount the connector to the PCB.
2. Attach the anchor to the panel with the nut.

Mounting the Connector to the PCB

Mounting the Anchor to the Panel

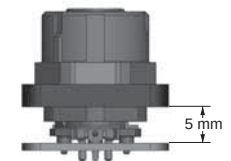
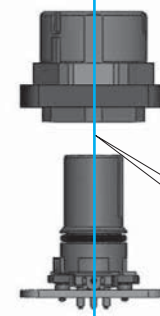


*Tightening torque: 1 N·m

3. Attach the connector that you mounted to the PCB to the panel.

* Make sure that the connector and anchor are oriented correctly.

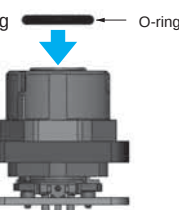
Attachment



Align the flat surface on the anchor with the grounding fixture terminal.

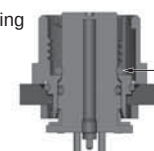
4. Temporarily mount the O-ring to the top of the connector at the mating surface.

Temporary Mounting of the O-Ring



5. Mate the Connector Waterproof Cover (XS2Z-22, sold separately) or the Partner Connector Plug (XS5H-T42□-□M0-K, sold separately) and press the O-ring to the O-ring position after mounting.

Mounting the O-Ring



O-Ring Position after Mounting

● Connector Waterproof Cover (Sold Separately)

XS2Z-22



* Tightening torque: 0.39 to 0.49 N·m

■ Safety Precautions

Precautions for Correct Use

Do not use the Connectors in an atmosphere or environment that exceeds the specifications.

● Connector Connection and Disconnection

- When connecting or disconnecting Connectors, be sure to hold the Connectors.
- Do not hold the cable when disconnecting Connectors.
- When joining Connectors, be sure to insert the plug all the way to the back of the socket before attempting to lock the Connectors.
- Do not use tools of any sort to join the Connectors. Always use your hands. Pliers or other tools may damage the Connectors.

● Wiring

Lay the cables so that external force is not applied to the Connectors. Otherwise, the degree of protection (IP67) may not be achieved.

● Degree of Protection for M12/SmartClick Connectors

- The degree of protection of Connectors (IP67) is not for a fully watertight structure. Do not use the Connectors underwater.
- Do not step on or place any objects on the Connectors. Doing so may damage the Connectors.

● Handling Precautions

- Do not pull on the Connectors or cables with excessive force.
Do not install the Connectors with a load placed directly on the joint or at the point where the wires connect to the Connector. The Connector may be damaged or the wires in the cable may be disconnected.
- Lay the cable where it will not be stepped on to prevent the wires in the cable from being disconnected and to protect the Connectors from being damaged. If the cable must be placed where it will be stepped on, install a protective cover.
- When bending cables, do not exceed the cable specifications.

- Application examples provided in this document are for reference only. In actual applications, confirm equipment functions and safety before using the product.
- Consult your OMRON representative before using the product under conditions which are not described in the manual or applying the product to nuclear control systems, railroad systems, aviation systems, vehicles, combustion systems, medical equipment, amusement machines, safety equipment, and other systems or equipment that may have a serious influence on lives and property if used improperly. Make sure that the ratings and performance characteristics of the product provide a margin of safety for the system or equipment, and be sure to provide the system or equipment with double safety mechanisms.

Terms and Conditions of Sale

1. **Offer; Acceptance.** These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
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 - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
 - c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
 - d. Delivery and shipping dates are estimates only; and
 - e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
12. **Claims.** Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
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16. **Property; Confidentiality.** Any intellectual property in the Products is the exclusive property of Omron Companies and Buyer shall not attempt to duplicate it in any way without the written permission of Omron. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Omron. All information and materials supplied by Omron to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
17. **Export Controls.** Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (ii) sale of products to "forbidden" or other proscribed persons; and (iii) disclosure to non-citizens of regulated technology or information.
18. **Miscellaneous.** (a) **Waiver.** No failure or delay by Omron in exercising any right and no course of dealing between Buyer and Omron shall operate as a waiver of rights by Omron. (b) **Assignment.** Buyer may not assign its rights hereunder without Omron's written consent. (c) **Law.** These Terms are governed by the law of the jurisdiction of the home office of the Omron company from which Buyer is purchasing the Products (without regard to conflict of law principles). (d) **Amendment.** These Terms constitute the entire agreement between Buyer and Omron relating to the Products, and no provision may be changed or waived unless in writing signed by the parties. (e) **Severability.** If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) **Setoff.** Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (g) **Definitions.** As used herein, "including" means "including without limitation"; and "Omron Companies" (or similar words) mean Omron Corporation and any direct or indirect subsidiary or affiliate thereof.

Certain Precautions on Specifications and Use

1. **Suitability of Use.** Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given:
 - (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
 - (ii) Use in consumer products or any use in significant quantities.
 - (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
 - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this Product.
 NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
2. **Programmable Products.** Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.
3. **Performance Data.** Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.
4. **Change in Specifications.** Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.
5. **Errors and Omissions.** Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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