

# General Purpose Relay

## G7J

- Ideal for 3-phase motor control applications and resistive and inductive loads.
- No contact chattering for momentary voltage drops up to 50% of rated voltage.
- Withstands more than 4 kV between contacts that are of different polarity and between the coil and contacts.
- Flame-resistant materials (UL94V-0) used for all insulation.
- Push-to-test button on all models lets user check contact operation.
- Class B coil insulation available.



## Ordering Information

Type	Contact form	Model		
		Quick-connect terminal	Screw terminal	PCB terminal
PCB mounting	4PST-NO	—	—	G7J-4A-P, G7J-4A-PZ
	3PST-NO/SPST-NC	—	—	G7J-3A1B-P, G7J-3A1B-PZ
	DPST-NO/DPST-NC	—	—	G7J-2A2B-P
W-bracket (see note)	4PST-NO	G7J-4A-T, G7J-4A-TZ	G7J-4A-B	
	3PST-NO/SPST-NC	G7J-3A1B-T, G7J-3A1B-TZ	G7J-3A1B-B, G7J-3A1B-BZ	
	DPST-NO/DPST-NC	G7J-2A2B-T	G7J-2A2B-B	

**Note:** The G7J relays require a W-bracket for mounting. Order the bracket separately below. To order a relay and bracket packed together, add “-W1” to the part number before the coil voltage suffix. For example, G7J-2A2B-B-W1-AC100/120.

## Model Number Legend

To Order: Select the part number and add the desired coil voltage rating (e.g., G7J-3A1B-B-AC100/120).

**G7J** -   -   -  

1      2      3

### 1. Contact Form

4A: 4PST-NO  
3A1B: 3PST-NO/SPST-NC  
2A2B: DPST-NO/DPST-NC

### 2. Terminal Shape

P: PCB terminals  
B: Screw terminals  
T: Quick-connect terminals  
(#250 terminal)

### 3. Contact Structure

Z: Bifurcated contact  
None: Single contact

**Note:** For bifurcated contact type, output is 1NO (4PST-NO) or 1NC (3PST-NO/SPST-NC).

## Accessories

Types	Applicable relays	Model
W-brackets	G7J-4A-B, G7J-3A1B-B(Z), G7J-2A2B-B, G7J-4A-T(Z), G7J-3A1B-T, G7J-2A2B-T	R99-04-FOR-G5F

## Typical Applications

Compressors for air conditioners and heater switching controllers.

Switching controllers for power tools or motors.

Lamp controls, motor drivers, and power supply switching controllers in copy machines, facsimile machines, and other office equipment.

Power controllers for packers or food processing equipment.

Power controllers for inverters.

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## ■ Contact Data

Load	Resistive load (p.f. = 1)	
	NO	NC
Rated load	25 A @ 220 VAC (1 A @ 220 VAC) / 25 A @ 30 VDC	8 A @ 220 VAC (1 A @ 220 VAC) / 8 A @ 30 VDC
Rated carry current	25 A (1 A)	8 A (1 A)
Max. switching voltage	250 VAC, 125 VDC	
Max. switching current	25 A (1 A)	8 A (1A)
Max. switching capacity	5,500 VA, 750 W DC	1,760 VA, 240 W DC
Min. permissible load	100 mA @ 24 VDC (10 mA @ 24 VDC) at 60 operations/minute, 23°C ambient temperature (See note 2)	

**Note:** 1. The values in parentheses indicate values for a bifurcated contact.

2. P level:  $\lambda_{60} = 0.1 \times 10^{-6}$ /operations

## ■ Coil Data

Rated voltage (VAC)		Rated current (mA)	Coil resistance ( $\Omega$ )	Must operate	Must release	Max. voltage	Power consumption
				% of rated voltage			
AC	24	75	—	75% max.	15% min.	110% @ 23°C	Approx. 1.8 to 2.6 VA
	50	36	—				
	100/120	18 to 21.60	—				
	200/240	9 to 10.80	—				
DC	12	167	72		10% min.		Approx. 2.0 W
	24	83	288				
	48	42	1150				
	100	20	5000				

**Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and  $\pm 15\%$  for DC coil resistance. The values given for AC rated current apply at 50 Hz or 60 Hz.

2. Performance characteristic data are measured at a coil temperature of 23°C.

## ■ Characteristics

Contact resistance (See note 2)		50 m $\Omega$ max.
Operating time (See note 3)		50 ms max.
Release time (See note 3)		50 ms max.
Operating frequency	Mechanical	1,800 operations/hour max.
	Electrical	1,800 operations/hour max.
Insulation resistance (See note 4)		1,000 M $\Omega$ minimum at 500 VDC
Dielectric strength		4,000 VAC, 50/60 Hz for 1 minute between coil and contacts
		4,000 VAC, 50/60 Hz for 1 minute between contacts of different polarity
		2,000 VAC, 50/60 Hz for 1 minute between contacts of the same polarity
Impulse withstand voltage		10,000 V between coil and contact with 1.2 x 50 $\mu$ s impulse wave
Vibration	Mechanical durability	10 to 55 Hz, 1.50 mm double amplitude
	Malfunction durability	NO: 10 to 55 Hz, 1.50 mm double amplitude NC: 10 to 26 Hz, 1.50 mm double amplitude
Shock	Mechanical durability	1000 m/s <sup>2</sup> (Approx. 100 G)
	Malfunction durability	NO: 100 m/s <sup>2</sup> (Approx. 10 G) NC: 20 m/s <sup>2</sup> (Approx. 2 G)
Service life	Mechanical	1 million operations minimum at 1,800 operations/hour
	Electrical	100,000 operations minimum at 1,800 operations/hour at rated load (@ 23°C)
Ambient temperature	Operating	-25° to 60°C with no icing or condensation
Humidity	Operating	5% to 85% RH
Weight	PCB terminal	Approx. 140 g
	Screw terminal	Approx. 165 g

**Note:** 1. Data shown are of initial value.

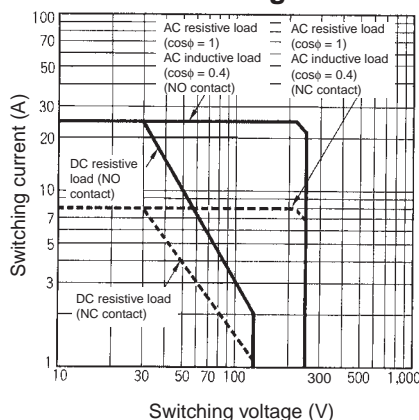
2. Measured with 1A @ 5 VDC using the voltage drop method.

3. Measured with rated voltage imposed, ignoring any contact bounce, at ambient temperature = 23°C.

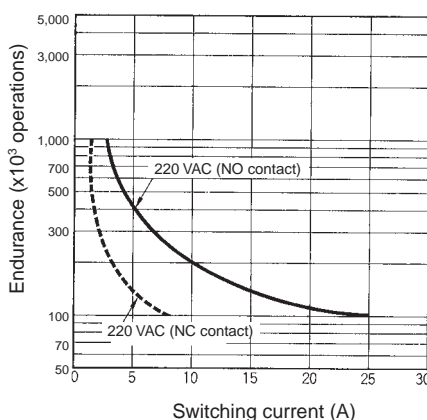
4. Measured with a 500-VDC megger applied to the same places as those used for checking the dielectric strength.

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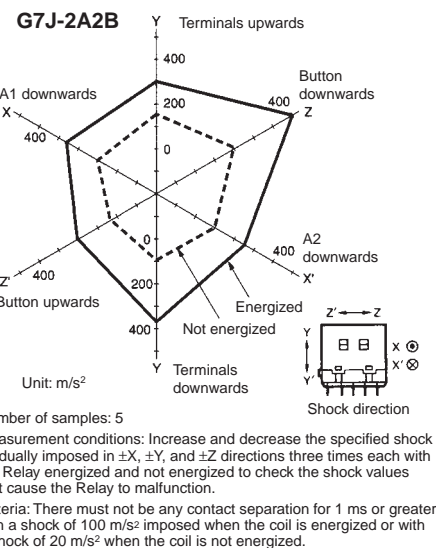
## Maximum Switching Power



## Endurance

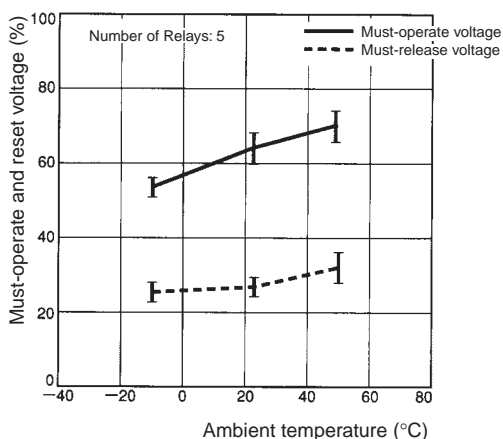


## Malfunctioning Shock

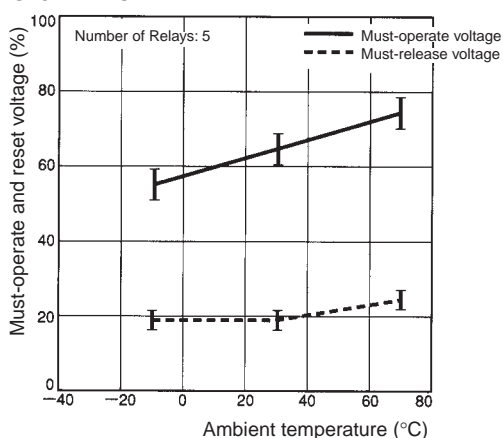


## Ambient Temperature vs. Must-operate and Must-release Voltage

G7J 100 to 120 VAC

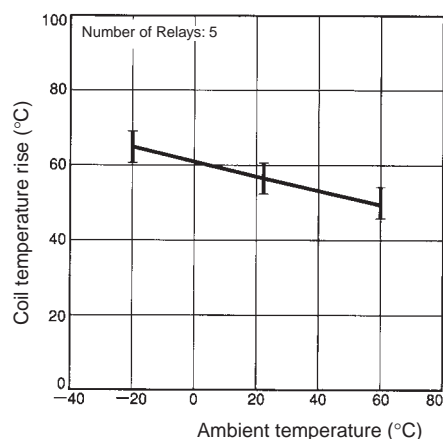


G7J 24 VDC

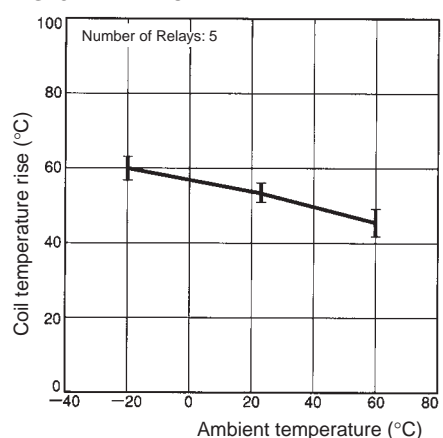


## Ambient Temperature vs. Coil Temperature Rise

G7J-4A 100 to 120 VAC



G7J-4A 24 VDC



## Motor Load Performance

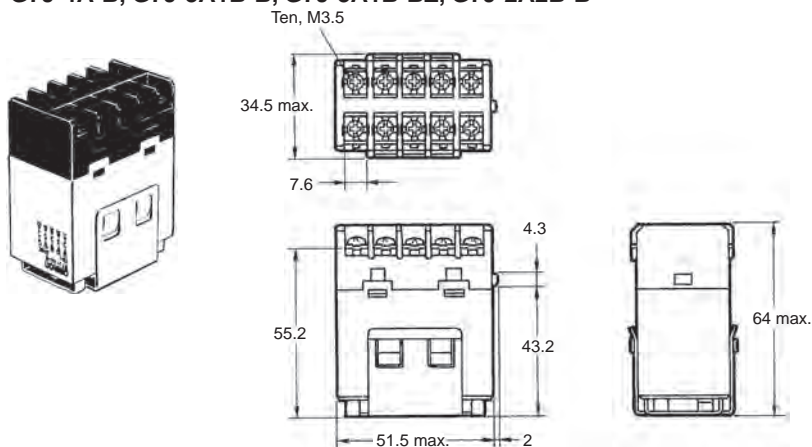
Item	G7J-4A-P, G7J-3A1B-P, G7J-4A-B, G7J-3A1B-B, G7J-4A-T, G7J-3A1B-T
Load	3φ, 220 VAC, 2.7 kW (with a inrush current of 78 A and a breaking current of 13 A)
Endurance	Electrical: 100,000 operations min.

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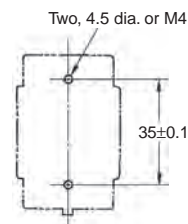
# Dimensions

**Note:** All units are in millimeters unless otherwise indicated

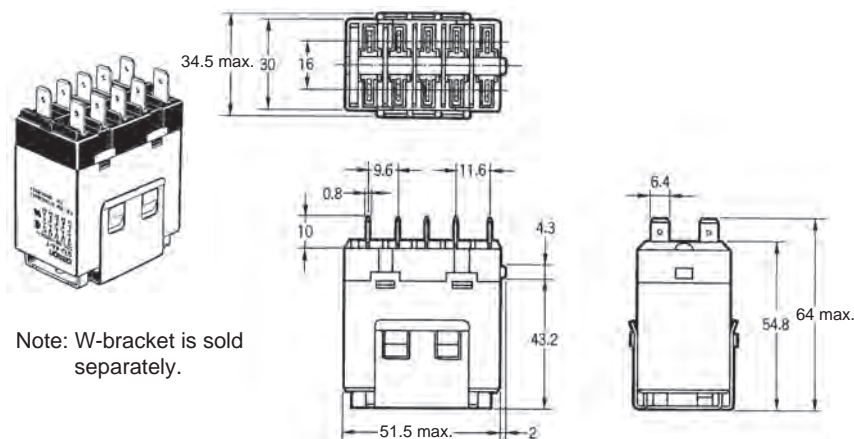
## Screw Terminals with W-bracket G7J-4A-B, G7J-3A1B-B, G7J-3A1B-BZ, G7J-2A2B-B



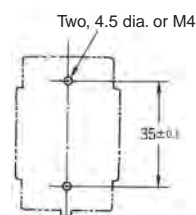
### Mounting Holes



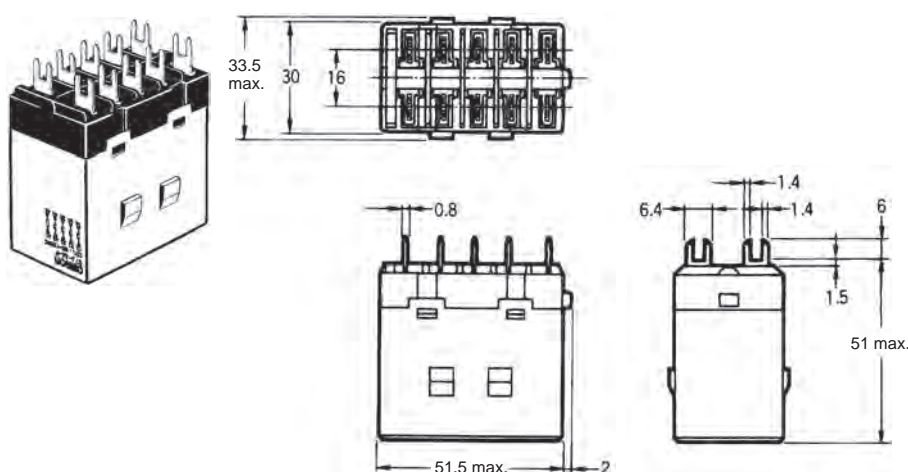
## Quick-connect Terminals with W-bracket G7J-4A-T, G7J-4A-TZ, G7J-3A1B-T, G7J-2A2B-T



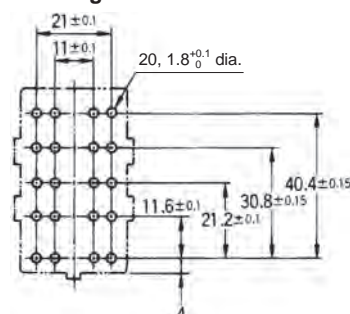
### Mounting Holes



## PCB Terminals with PCB Mounting G7J-4A-P, G7J-4A-PZ, G7J-3A1B-P, G7J-3A1B-PZ, G7J-2A2B-P



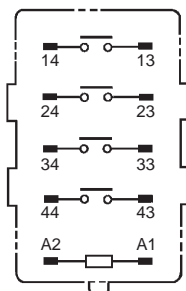
### Mounting Dimensions



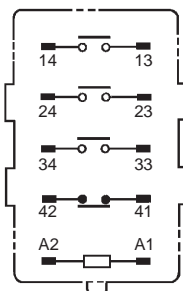
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## Terminal Arrangement/Internal Connections

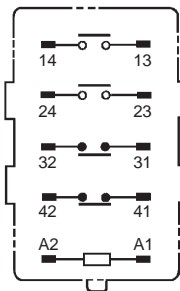
G7J-4A-P  
G7J-4A-B  
G7J-4A-T



G7J-3A1B-P  
G7J-3A1B-B  
G7J-3A1B-T



G7J-2A2B-P  
G7J-2A2B-B  
G7J-2A2B-T

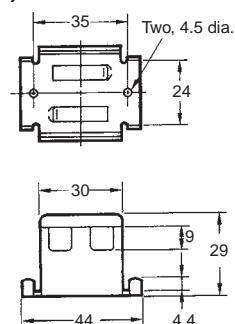
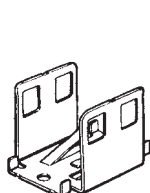


**Note:** Terminals 43 and 44 of the G7J-4A-P(T) and contacts 41 and 42 of the G7J-3A1B-P(B) are bifurcated contacts.

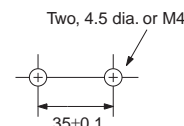
The coil has no polarity.

## Accessories (Order Separately)

R99-04 W-bracket (for G5F)



### Mounting Holes



## Approvals

**Note:** 1. The rated values approved by each of the safety standards may be different from the performance characteristics individually defined in this catalog.  
2. In the interest of product improvement, specifications are subject to change without notice.

UL Recognized (File No. E41643) / CSA Certified (File No. LR 35535) - - Ambient Temp = 40°C

Coil ratings	Contact ratings		Number of test operations
24 to 265 VAC 6 to 110 VDC	NO contact	25 A 277 VAC, Resistive	30,000
		25 A 120 VAC, General Use	
		25 A 277 VAC, General Use	
		25 A 240 VAC, General Use	100,000
		1.5 kW 120 VAC, Tungsten	
		1.5 hp 120 VAC	
		3 hp 240/265/277 VAC	30,000
		3-phase 3 hp 240/265/277 VAC	
		3-phase 5 hp 240/265/277 VAC	
		20FLA/120LRA 120 VAC	
		17FLA/102LRA 277 VAC	
		TV-10 120 VAC	25,000
		25 A 30 VDC, Resistive	30,000
		*1 A 277 VAC, General Use	6,000
	NC contact	8 A 277 VAC, Resistive	30,000
		8 A 120 VAC, General Use	
		8 A 277 VAC, General Use	
		8 A 30 VDC, Resistive	
		*1 A 277 VAC, General Use	6,000

**Note:** \*These ratings are bifurcated contact ratings.

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## Reference

UL approval: UL508 for industrial control devices  
UL1950 for information processing equipment including business machines

CSA approval: CSA C22.2 No. 14 for industrial control devices  
CSA C22.2 No. 950 for information processing equipment including business machines

OMRON

## VDE - EN60255-1-00: 1997 and EN60255-23: 1996(File No. 5381UG)

Model	Coil ratings	Contact ratings	
		NO contact	NC contact
G7J-4A-B(P) (T)	6, 12, 24, 48, 100 VDC	25 A 240 VAC $\cos\phi = 0.4$	8 A 240 VAC $\cos\phi = 0.4$
G7J-2A2B(P) (T)	24, 50, 100 to 120, 200 to 240 VAC	25 A 240 VAC $\cos\phi = 1$	8 A 240 VAC $\cos\phi = 1$
G7J-3A1B-B(P) (T)		25 A 30 VDC $L/R \geq 1$	8 A 30 VDC $L/R \geq 1$

**Note:** Add the suffix "-KM" to the model number when ordering.

## KEMA - EN60947-4-1 and IEC947-4-1 for contacts (File No. 2001291.02)

Model	Coil ratings	Contact ratings - NO contact
G7J-4A-B(P) (T) (Z) G7J-2A2B(P) (T)	200 to 240 VAC	Class AC1: 25 A at 220 VAC 11.5 A at 380 to 480 VAC
G7J-3A1B-B(P) (T) (Z)	6, 12, 24, 48, 100 VDC 24, 50, 100 to 120, 200 to 240 VAC	Class AC3: 11.5 A at 220 VAC and 8.5 A at 380 to 480 VAC *Class AC1: 1 A at 220 VAC

**Note:** Add the suffix "-KM" to the model number when ordering. \*This rating is the bifurcated contact rating.

# Precautions

**Note:** Be sure to read the precautions and information common to all relays, contained in the Technical User's Guide, "Electromechanical Relays - Technical Information", for correct use.

## Correct Use

### Installation

PCB Terminal-equipped Relays weigh approximately 140 g. Be sure that the PCB is strong enough to support them. We recommend dual-side through-hole PCBs to reduce solder cracking from heat stress.

Mount the G7J with its test button facing downwards. The Relay may malfunction due to shock if the test button faces upwards. Be careful not to press the test button by mistake because the contacts will go ON if the test button is pressed.

Be sure to use the test button for test purposes only.

The test button is used for Relay circuit tests, such as a circuit continuity test. Do not attempt to switch the load with the test button. If a voltage is applied to the coil, the test button will retract in an ON state (i.e., an excited state).

### Micro Loads

The G7J is used for switching power loads, such as motor, transformer, solenoid, lamp, and heater loads. Do not use the G7J for switching minute loads, such as signals. Use a Relay with a bifurcated contact construction for switching micro loads, in which case, however, only SPST-NO or SPST-NC output is obtained.

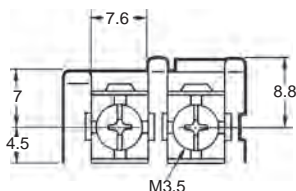
### Soldering PCB Terminals

Be sure to solder the PCB terminals manually only. In the case of automatic soldering, some flux may stick to the test button and the G7J. As a result, the G7J may malfunction.

The G7J is not of enclosed construction. Therefore, do not wash the G7J with water or any detergent.

### Connecting

Refer to the following diagram when connecting a wire with a screw terminal to the G7J.



Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.

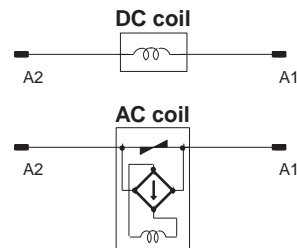
Tightening torque: 0.98 N·m

Do not impose excessive external force on the G7J in the horizontal or vertical directions when inserting the G7J to the Faston receptacle or pulling the G7J out from the Faston receptacle. Do not attempt to insert or pull out more than one G7J Unit together.

Do not solder the tab terminals.

### Operating Coil

#### Internal Connections of Coils



If a transistor drives the G7J, check the leakage current, and connect a bleeder resistor if necessary.

The AC coil is provided with a built-in full-wave rectifier that prevents contact chatter during a voltage drop. This circuit allows the relays to withstand, with no vibration or shock, voltage drops to the coil of up to 50% of the rated coil voltage for 1 second max.

If a triac, such as an SSR, drives the AC coil of the G7J, the G7J may not release. Be sure to perform a trial operation with the G7J and the triac before applying them to actual use.

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  - 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.
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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 (ii) 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.