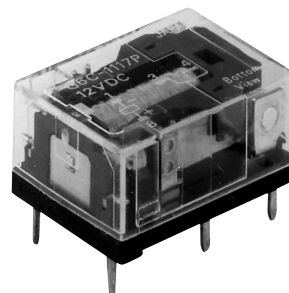


# Power PCB Relay G6C

- Subminiature 20.07 L x 14.99 W x 9.91 H mm (0.79 L x 0.59 W x 0.39 H in).
- Low power consumption (200 mW).
- Semi-sealed and sealed types available.
- Unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference, and contact bounce time.
- Single and double-winding latching types available.
- High sensitivity in a compact package.
- Long life assured by high contact pressure.



## Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., G6C-1117P-US-DC6).

Type	Contact form	Construction	Model
Non-latching	SPST-NO	Sealed	G6C-1114P-US
	SPST-NO + SPST-NC		G6C-2114P-US
	SPST-NO	Semi-sealed	G6C-1117P-US
	SPST-NO + SPST-NC		G6C-2117P-US
Single-winding latching contact	SPST-NO	Sealed	G6CU-1114P-US
	SPST-NO + SPST-NC		G6CU-2114P-US
	SPST-NO	Semi-sealed	G6CU-1117P-US
	SPST-NO + SPST-NC		G6CU-2117P-US
Dual-winding latching contact	SPST-NO	Sealed	G6CK-1114P-US
	SPST-NO + SPST-NC		G6CK-2114P-US
	SPST-NO	Semi-sealed	G6CK-1117P-US
	SPST-NO + SPST-NC		G6CK-2117P-US

## Accessories

### Back Connecting Sockets

Relay	Model
G6C-1114P-US	P6C-06P
G6C-1117P-US	
G6C-2114P-US	
G6C-2117P-US	
G6CU-1114P-US	
G6CU-1117P-US	
G6CU-2114P-US	
G6CU-2117P-US	
G6CK-1114P-US	P6C-08P
G6CK-1117P-US	
G6CK-2114P-US	
G6CK-2117P-US	

# Specifications

## ■ Contact Data

### Non-latching

Load	SPST-NO		SPST-NO + SPST-NC	
	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)
Rated load	10 A at 250 VAC 10 A at 30 VDC	5 A at 250 VAC 5 A at 30 VDC	8 A at 250 VAC 8 A at 30 VDC	3.5 A at 250 VAC 3.5 A at 30 VDC
Contact material	Ag-Alloy			
Carry current	10 A		8 A	
Max. operating voltage	380 VAC, 125 VDC			
Max. operating current	10 A		8 A	
Max. switching capacity	2,500 VA, 300 W	1,250 VA, 220 W	2,000 VA, 240 W	875 VA, 170 W
Min. permissible load	10 mA, 5 VDC			

### Latching

Load	SPST-NO		SPST-NO + SPST-NC	
	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)	Resistive load (p.f. = 1)	Inductive load (p.f. = 0.4) (L/R = 7 ms)
Rated load	10 A at 250 VAC 10 A at 30 VDC	5 A at 250 VAC 5 A at 30 VDC	8 A at 250 VAC 8 A at 30 VDC	3.5 A at 250 VAC 3.5 A at 30 VDC
Contact material	Ag-Alloy			
Carry current	10 A		8 A	
Max. operating voltage	380 VAC, 125 VDC			
Max. operating current	10 A		8 A	3.5 A
Max. switching capacity	2,500 VA, 300 W	1,250 VA, 220 W	2,000 VA, 240 W	875 VA, 105 W
Min. permissible load	10 mA, 5 VDC			

## ■ Coil Data

### Non-latching

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)
			Armature OFF	Armature ON				
3	66.70	45	0.078	0.067	70% max.	10% min.	160% max. at 23°C (73°F)  130% max. at 70°C (158°F)	Approx. 200
5	40	125	0.22	0.18				
6	33.30	180	0.36	0.29				
12	16.70	720	1.32	1.13				
24	8.30	2,880	4.96	4.19				

### Single-winding Latching Type

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value) (H)	Set pick-up voltage	Reset pick-up voltage	Maximum voltage	Power consumption (mW)
				% of rated voltage			
3	66.70	45	0.09	70% max.	70% min.	160% max. at 23°C (73°F)  130% max. at 70°C (158°F)	Approx. 200
5	40	125	0.25				
6	33.30	180	0.36				
12	16.70	720	1.75				
24	8.30	2,880	5.83				

**Note:** The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10%.

## ■ Coil Data

### Dual-winding Latching Type

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Coil inductance (ref. value) (H)		Set pick-up voltage	Reset pick-up voltage	Maximum voltage	Power consumption (mW)
			Set Coil	Reset Coil				
3	93.50	32.10	0.03	0.03	70% max.	70% max.	160% max. at 23°C (73°F)	Approx. 280
5	56	89.30	0.07	0.08				
6	46.70	129	0.10	0.12				
12	23.30	514	0.37	0.47				
24	11.70	2,056	1.56	1.46				

- Note:**
1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±10%.
  2. Operating characteristics are measured at a coil temperature of 23°C (73°F).
  3. The minimum pulse width of the set and reset voltage is 20 ms.

## ■ Characteristics

		Non-latching	Latching
<b>Contact resistance</b>		30 mΩ max.	
<b>Operate (set) time</b>		10 ms max. (mean value: approx. 5 ms)	
<b>Release (reset) time</b>		10 ms max. (mean value: approx. 2 ms)	
<b>Bounce time</b>	<b>Operate</b>	Approx. 3 ms	
	<b>Release</b>	Approx. 3 ms	
<b>Operating frequency</b>	<b>Mechanical</b>	18,000 operations/hour	
	<b>Electrical</b>	1,800 operations/hour (under rated load)	
<b>Insulation resistance</b>		1,000 MΩ min. (at 500 VDC)	
<b>Dielectric strength</b>		2,000 VAC, 50/60 Hz for 1 minute between coil and contacts, non-latching types	
		2,000 VAC, 50/60 Hz for 1 minute between contacts of different poles, non-latching	
		1,000 VAC, 50/60 Hz for 1 minute between contacts of same pole, non-latching	
		250 VAC, 50/60 Hz for 1 minute between set and reset coils, latching types	
<b>Surge withstand voltage</b>		4,500 V x 40 μs (between coil and contacts, non-latching)	
<b>Vibration</b>	<b>Mechanical durability</b>	10 to 55 Hz; 1.50 mm (0.06 in) double amplitude	
	<b>Malfunction durability</b>	10 to 55 Hz; 1.50 mm (0.06 in) double amplitude	
<b>Shock</b>	<b>Mechanical durability</b>	Approx. 100 G	
	<b>Malfunction durability</b>	Approx. 10 G	
<b>Ambient temperature</b>		-25 to 70°C (-13° to 158°F)	
<b>Humidity</b>		45 to 85% RH	
<b>Service life</b>	<b>Mechanical</b>	50 million operations min. (at operating frequency of 18,000 operations/hour)	
	<b>Electrical</b>	See "Characteristic Data"	
<b>Weight</b>		Approx. 5.6 g (0.20 oz)	

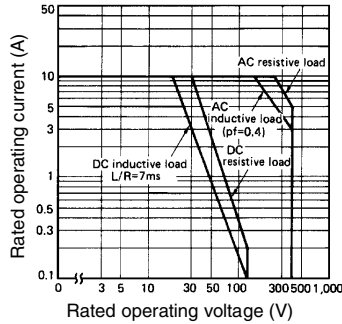
**Note:** Data shown are of initial value.

# Characteristic Data

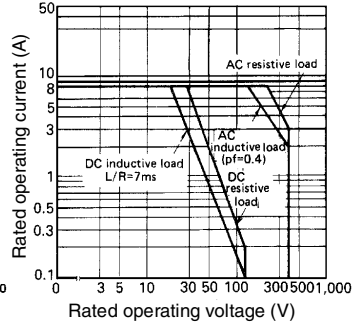
## Non-latching Types

### Maximum switching capacity

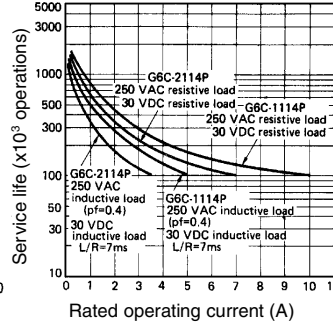
#### SPST-NO



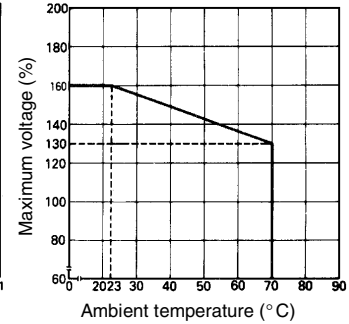
#### SPST-NO + SPST-NC



### Electrical service life



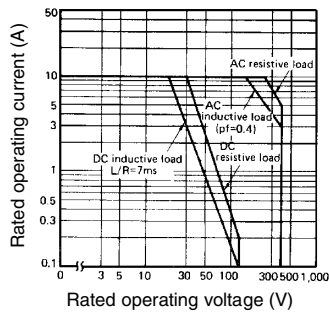
### Ambient temperature maximum voltage (reference only)



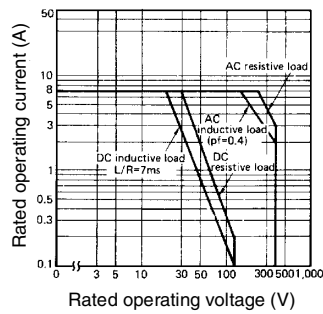
## Latching Types

### Maximum switching capacity

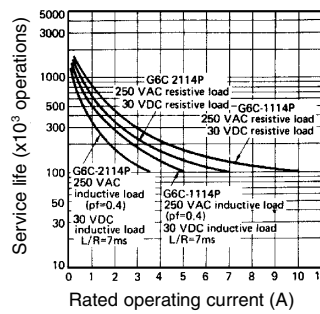
#### SPST-NO



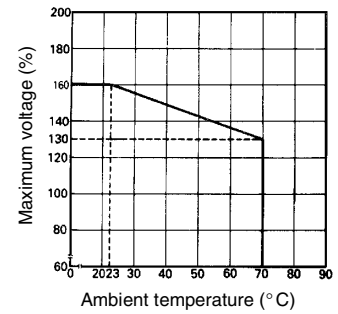
#### SPST-NO + SPST-NC



### Electrical service life



### Ambient temperature maximum voltage (reference only)

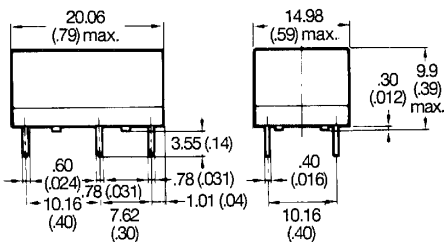


## Dimensions

Unit: mm (inch)

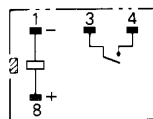
## Non-latching Relays

### G6C-□117P-US



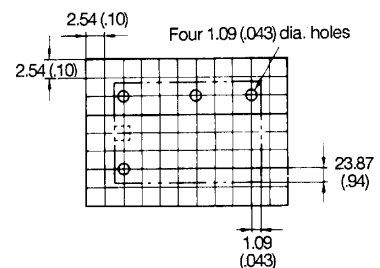
Terminal arrangement/  
Internal connections  
(Bottom view)

G6C-1117P-US, G6C-1114P-US



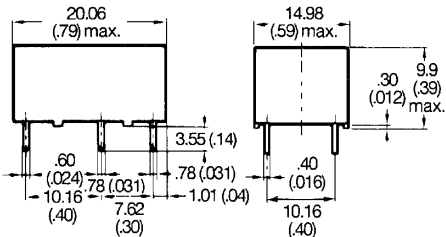
Mounting holes

[Bottom view, Tolerance ±2.54 (0.10)]



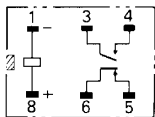
Note: and indicate mounting orientation marks.

G6C-□114P-US



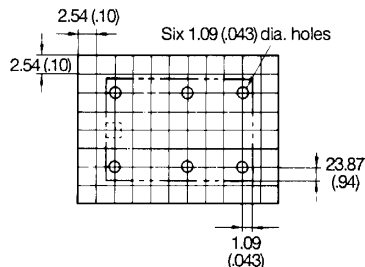
Terminal arrangement/  
Internal connections  
(Bottom view)

G6C-1117P-US, G6C-1114P-US



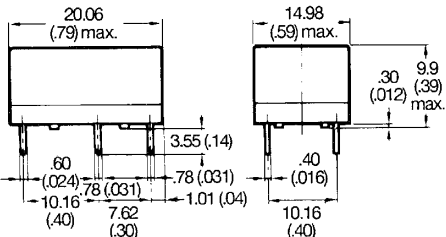
Mounting holes

[Bottom view, Tolerance ±2.54 (0.10)]

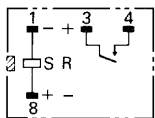


■ Latching Relays

Single winding types, 1-pole  
G6CU-1117P-US, G6CU-1114P-US

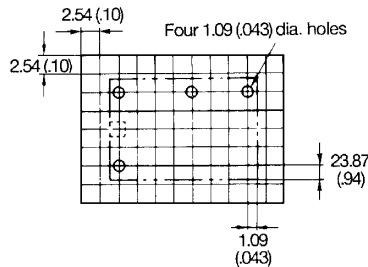


Terminal arrangement/  
Internal connections  
(Bottom view)

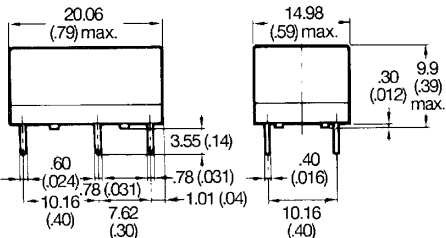


Mounting holes

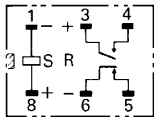
(Bottom view)



Single winding types, 2-pole  
G6CU-2117P-US, G6CU-2114P-US

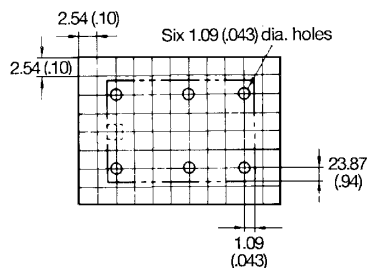


Terminal arrangement/  
Internal connections  
(Bottom view)



Mounting holes

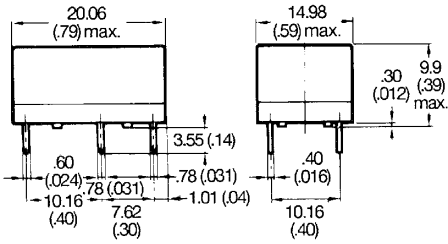
(Bottom view)



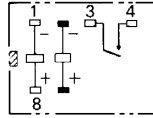
Note: and indicate mounting orientation marks.

Unit: mm (inch)

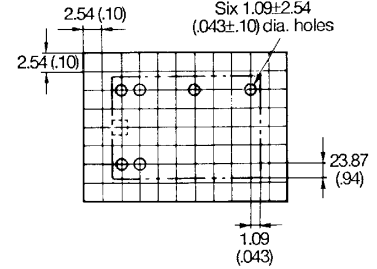
**Double winding types, 1-pole**  
**G6CK-1117P-US, G6CK-1114P-US**



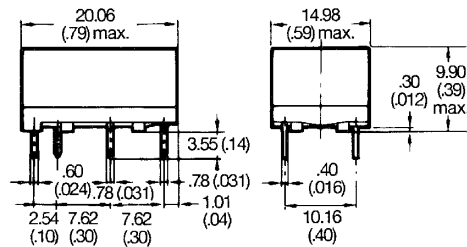
**Terminal arrangement/  
Internal connections**  
(Bottom view)



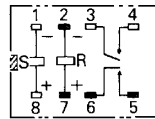
**Mounting holes**  
(Bottom view)



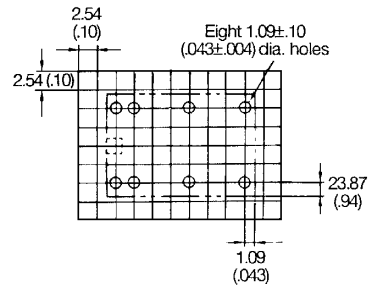
**Double winding types, 2-pole**  
**G6CK-2117P-US, G6CK-2114P-US**



**Terminal arrangement/  
Internal connections**  
(Bottom view)



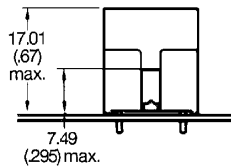
**Mounting holes**  
(Bottom view)



**Accessories**

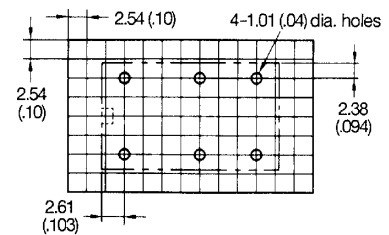
**Connecting sockets – P6C-06P, P6C-08P**

**Mounting height of relay  
width connecting socket**

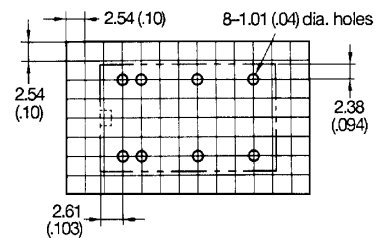


**Mounting holes**  
(Bottom view)

**P6C-06P**



**P6C-08P**



**Note:** and indicate mounting orientation marks.

## ■ Approvals

UL (File No. E41643)/CSA (File No. LR31928)

Type	Contact form	Coil rating	Contact ratings
G6C-1114P-US G6C-1117P-US	SPST-NO	3 to 60 VDC	10 A, 250 VAC (General purpose) 10 A, 30 VDC (Resistive) TV-5 1/4 HP, 125 VAC 1/4 HP, 250 VAC (Motor load) 1/3 HP, 250 VAC (Motor load) 600 WT, 120 VAC (Tungsten) 530 VA, 265 VAC, 2 A max. pilot duty 43.2 VA, 30 VDC, pilot duty 22 LRA, 3.6 FLA, 30 VDC B300 pilot duty
G6C-2114P-US G6C-2117P-US	SPST-NO + SPST-NC	3 to 60 VDC	8 A, 250 VAC (General purpose) 8 A, 30 VDC (Resistive) TV-5 1/4 HP, 125 VAC 1/4 HP, 250 VAC (Motor load) 600 WT, 120 VAC (Tungsten) 530 VA, 265 VAC, 2 A max. pilot duty 43.2 VA, 30 VDC, pilot duty 22 LRA, 3.6 FLA, 30 VDC B300/R300 pilot duty
G6C(U/K)-1114P-US G6C(U/K)-1117P-US	SPST-NO	3 to 60 VDC	10 A, 250 VAC (General purpose) 10 A, 30 VDC (Resistive) 1/6 HP, 125 VAC (Motor load) TV-5 1/4 HP, 125 VAC 1/4 HP, 250 VAC (Motor load) 1/3 HP, 250 VAC (Motor load) 600 WT, 120 VAC (Tungsten)
G6C(U/K)-2114P-US G6C(U/K)-2117P-US	SPST-NO + SPST-NC	3 to 60 VDC	8 A, 250 VAC (General purpose) 8 A, 30 VDC (Resistive) 1/6 HP, 125 VAC (Motor load) TV-5 1/4 HP, 125 VAC 1/4 HP, 250 VAC (Motor load) 1/3 HP, 250 VAC (Motor load) 600 WT, 120 VAC (Tungsten)

VDE (File No. 2314)

Type	Contact form	Coil rating	Contact ratings
G6C-1117P-VD G6C-1114P-VD	SPST-NO	DC3, 12, 24V	250 VAC 10 A (Resistive) 5 A (Inductive)
G6C-2117P-VD G6C-2114P-VD	SPST-NO + SPST-NC	DC3, 12, 24V	250 VAC 7 A (Resistive) 3.5 A (Inductive)

**Note: 1.** The rated values approved by each of the safety standards (e.g., UL and CSA) may be different from the performance characteristics individually defined in this catalog.

**2.** In the interest of product improvement, specifications are subject to change.

# Omron Electronic Components, LLC

## Terms and Conditions of Sales

### I. GENERAL

- Definitions:** The words used herein are defined as follows.
  - Terms:** These terms and conditions
  - Seller:** Omron Electronic Components LLC and its subsidiaries
  - Buyer:** The buyer of Products, including any end user in section III through VI
  - Products:** Products and/or services of Seller
  - Including:** Including without limitation
- Offer/Acceptance:** These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
- Distributor:** Any distributor shall inform its customer of the contents after and including section III of these Terms.

### II. SALES

- Prices/Payment:** All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.
- Discounts:** Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (a) the invoice is paid according to Seller's payment terms and (b) Buyer has no past due amounts owing to Seller.
- Interest:** Seller, at its option, may charge Buyer 1.5% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
- Orders:** Seller will accept no order less than 200 U.S. dollars net billing.
- Currencies:** If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
- Governmental Approvals:** Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
- Taxes:** All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
- Financial:** If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Products sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts.
- Cancellation/Etc:** Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
- Force Majeure:** Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
- Shipping/Delivery:** Unless otherwise expressly agreed in writing by Seller:
  - All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;
  - Delivery and shipping dates are estimates only; and
  - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- Claims:** Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

### III. PRECAUTIONS

- Suitability:** IT IS THE BUYER'S SOLE RESPONSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
- Use with Attention:** The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
  - Outdoor use, use involving potential chemical contamination or electrical interference.
  - Use in consumer Products or any use in significant quantities.

- 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.
  - Systems, machines, and equipment that could present a risk to life or property.
- Prohibited Use:** NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
  - Motorized Vehicle Application:** USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
  - Programmable Products:** Seller shall not be responsible for the Buyer's programming of a programmable Product.

### IV. WARRANTY AND LIMITATION

- Warranty:** Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
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