Power PCB Relay

- 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).

Туре	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			
ingle-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	ATTA LITTLE VI	G6CU-2117P-US			
Dual-winding latching contact	SPST-NO	Sealed	G6CK-1114P-US			
	SPST-NO + SPST-NC	A 1117	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	part -
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	SP	ST-NO	SPST-NO	O + 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	5 A at 250 VAC	8 A at 250 VAC	3.5 A at 250 VAC		
	10 A at 30 VDC	5 A at 30 VDC	8 A at 30 VDC	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	vitching capacity 2,500 VA, 300 W		2,000 VA, 240 W	875 VA, 170 W		
Min. permissible load	10 mA, 5 VDC	•	•			

Latching

Load	S	PST-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	5 A at 250 VAC	8 A at 250 VAC	3.5 A at 250 VAC		
	10 A at 30 VDC	5 A at 30 VDC	8 A at 30 VDC	3.5 A at 30 VDC		
Contact material	Ag-Alloy	-		<u> </u>		
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	Rated	Coil		uctance lue) (H)	Pick-up	Dropout	Maximum	Power		
voltage (VDC)	current (mA)	resistance	Armature	Armature	voltage	voltage	voltage	consumption (mW)		
(450)	(VDC) (mA) (Ω) OFF ON				% of rated voltage					
3	66.70	45	0.078	0.067	70% max.	10% min.	160% max.	Approx. 200		
5	40	125	0.22	0.18			at 23°C (73°F)			
6	33.30	180	0.36	0.29			130% max.			
12	16.70	720	1.32	1.13			at 70°C (158° F)			
24	8.30	2,880	4.96	4.19			(136 F)			

Single-winding Latching Type

Rated voltage	Rated Coil Coil inductance current resistance (ref. value) (H)		Set pick-up voltage	Reset pick-up voltage	Maximum voltage	Power consumption	
(VDC)	(mA)	(Ω)			(mW)		
3	66.70	45	0.09	70% max.	70% min.	160% max.	Approx. 200
5	40	125	0.25			at 23°C (73°F)	
6	33.30	180	0.36			130% max.	
12	16.70	720	1.75			at 70°C (158°F)	
24	8.30	2,880	5.83			(136 F)	

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	Rated current	Coil resistance		luctance llue) (H)	Set pick-up	Reset pick-up	Maximum voltage	Power consumption		
(VDC)	(mA) (Ω) Set Reset		Reset	voltage	voltage		(mW)			
			Coil	Coil	9/	% of rated voltage				
3	93.50	32.10	0.03	0.03	70% max.	70% max.	160% max.	Approx. 280		
5	56	89.30	0.07	0.08	1		at 23°C (73°F)			
6	46.70	129	0.10	0.12	1		110% max.			
12	23.30	514	0.37	0.47			at 70°C (158°F)			
24	11.70	2,056	1.56	1.46	1		(156 F)			

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

Note: Data shown are of initial value.



Ambient temperature (°C)

■ Characteristic Data

Non-latching Types

Maximum switching capacity Electrical service life Ambient temperature maximum voltage (reference only) SPST-NO SPST-NO + SPST-NC Service life (x10³ operations) Rated operating current (A) 3 Rated operating current % Maximum voltage 130 DC inductive I L/R=7ms 120 100 0.3 30 50 100

Rated operating current (A)

Rated operating voltage (V)

Latching Types

Rated operating voltage (V)

Maximum switching capacity

SPST-NO

SPST-NO + SPST-NC

Electrical service life

Ambient temperature maximum voltage (reference only)

SPST-NO + SPST-NC

(reference only)

SPST-NO + SPST-NC

(veference only)

SPST-NO + SPST-NC

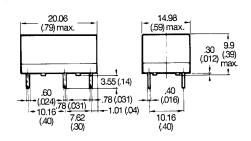
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Dimensions

Unit: mm (inch)

■ Non-latching Relays

G6C-□117P-US



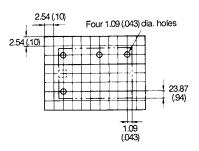
Terminal arrangement/ Internal connections (Bottom view)

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



Mounting holes

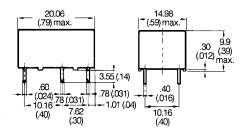
[Bottom view, Tolerance ±2.54 (0.10)]



Note: and ___ indicate mounting orientation marks.

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G6C-□114P-US



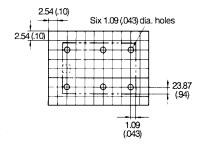
Terminal arrangement/ Internal connections (Bottom view)

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



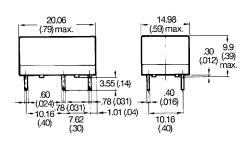
Mounting holes

[Bottom view, Tolerance ±2.54 (0.10)]



■ Latching Relays

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

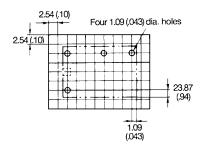


Terminal arrangement/ Internal connections (Bottom view)

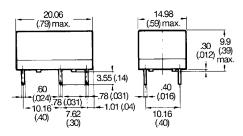


Mounting holes

(Bottom view)



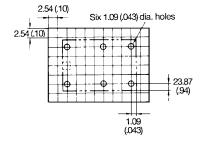
Single winding types, 2-pole G6CU-2117P-US, G6CU-2114P-US



Terminal arrangement/ Internal connections (Bottom view)



Mounting holes (Bottom view)

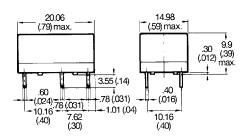


Note: and indicate mounting orientation marks.

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Unit: mm (inch)

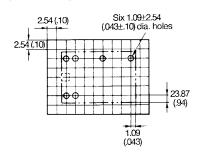
Double winding types, 1-pole G6CK-1117P-US, G6CK-1114P-US



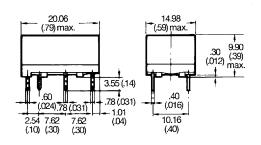
Terminal arrangement/ Internal connections (Bottom view)



Mounting holes (Bottom view)



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

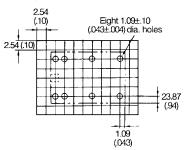


Terminal arrangement/ Internal connections (Bottom view)



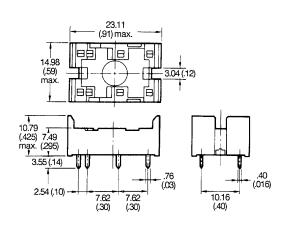
Mounting holes

(Bottom view)

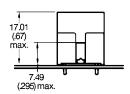


Accessories

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

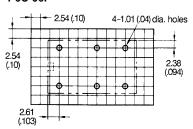


Mounting height of relay width connecting socket

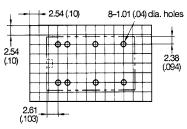


Mounting holes (Bottom view)

P6C-06P



P6C-08P



Note: _____ and ____ indicate mounting orientation marks.

■ Approvals

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

Туре	Contact form	Coil rating	Contact ratings
G6C-1114P-US	SPST-NO	3 to 60 VDC	10 A, 250 VAC (General purpose)
G6C-1117P-US			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	SPST-NO +	3 to 60 VDC	8 A, 250 VAC (General purpose)
G6C-2117P-US	SPST-NC		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	SPST-NO	3 to 60 VDC	10 A, 250 VAC (General purpose)
G6C(U/K)-1117P-US			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	SPST-NO +	3 to 60 VDC	8 A, 250 VAC (General purpose)
G6C(U/K)-2117P-US	SPST-NC		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)

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

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Terms and Conditions of Sale

- Offer; Acceptance. These terms and conditions (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 or services (collectively, the "Products") by Omron Electronic Components LLC ("Seller"). Seller hereby 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.

 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.
- <u>Discounts</u>. 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 (i) the invoice is paid according to Seller's
- payment terms and (ii) Buyer has no past due amounts owing to Seller.

 <u>Currencies.</u> 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 and which is available on the due date; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dol-
- lars 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, and shall bear all costs involved in, obtaining any government approvals required for 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
- 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.

 10. Shipping: Delivery.

 1. Shipments shall be by a carrier selected by Seller;

 - 2. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
 - shall constitute delivery to Buyer;

 3. 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.
 - 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 writing to Seller 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 Seller in the condition claimed.

- 12. Warranties. (a) Exclusive 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 twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). Seller disclaims all other warranties, express or implied. (b) Limitations. SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Seller further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Pamedy, Seller's sole other erwise of any intellectual property right. (c) <u>Buyer Remedy</u>. Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the noncomplying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that in no event shall Seller be responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Seller's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment. Seller shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies, or any other materials or substances or environments.
- circuits, system assemblies, or any other materials of substances of environments. Any advice, recommendations or information given orally or in writing are not to be construed as an amendment or addition to the above warranty. Limitation on Liability: Etc. SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. Further, in no event shall liability of Seller exceed the individual price of the Product on which liability is asserted.
- which liability is asserted.

 14. Indemnities. Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Seller is a party) which arise is a light or the form of the proceeding the process of the proc or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products. Without limiting the foregoing, Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- <u>Property: Confidentiality.</u> The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials supplied by Seller to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and extern expected deposits to some third party.
- etary, and Buyer snall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.

 16. <u>Miscellaneous.</u> (a) <u>Waiver</u>. No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Seller's written consent. (c) <u>Law</u>. These Terms are governed by Illinois law (without regard to conflict of law principles). Federal and state courts in Illinois shall have exclusive jurisdiction for any dispute hereunder. (d) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Seller relating to the Products and no provision may be changed or and Seller 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".

Certain Precautions on Specifications and Use

- Suitability for Use. Seller shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in Buyer's application or use of the Product. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limita-tions 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 product of the particular attention or electrical interference or product of the particular attention or electrical interference or product of the particular attention or electrical interference or product or p

 - interference, or conditions or uses not described in this document.

 (ii) 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.

 - (iii)Use in consumer products or any use in significant quantities.(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
 - 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 OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

- Programmable Products. Seller shall not be responsible for the user's
- programming of a programmable product, or any consequence thereof.

 Performance Data. Performance data given in this publication is provided as a guide for the user in determining suitability and does not constitute a warranty It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to Seller's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to Seller's Warranty and Limitations of Liability.
- Seller's Warranty and Limitations of Liability.

 Change in Specifications. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our pract tice 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, spe cial part numbers may be charged without any induce. When in doubt, special part numbers may be assigned to fix or establish key specifications for you application. Please consult with your Seller representative at any time to con firm actual specifications of purchased Product.

 <u>Errors and Omissions.</u> The information in this publication has been carefully checked and is believed to be accurate; however, no responsibility is assumed the desirable through the production contains a production of the production.
- for clerical, typographical or proofreading errors, or omissions.

 ROHS Compliance. Where indicated, our products currently comply, to the best of our knowledge as of the date of this publication, with the requirements of the European Union's Directive on the Restriction of certain Hazardous Substances ("RoHS"), although the requirements of RoHS do not take effect unit. July 2006. These requirements may be subject to change. Please consult ou website for current information.

Complete "Terms and Conditions of Sale" for product purchase and use are on Omron's website at www.components.omron.com - under the "About Us" tab, in the Legal Matters section.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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