PCB Relay

A Cubic, Single-pole 10A Power Relay

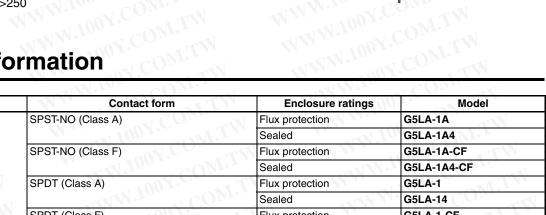
- · Economical cube relay with universal terminal footprint
- Conforms to VDE0435, CQC
- UL recognized/ CSA certified.
- High switching power: 10A @ 250VAC
- Withstands impulse of up to 4,500V
- Coil power consumption: 360mW
- UL Class F coil insulation type also available
- Tracking resistance: CTI>250

Туре

RoHS Compliant

Ordering Information





WWW.100

Standard	SPST-NO (Class A)	Flux protection	G5LA-1A	
NT.V.	W	Sealed	G5LA-1A4	
V CONT	SPST-NO (Class F)	Flux protection	G5LA-1A-CF	
1001. M.I.	100 ×	Sealed	G5LA-1A4-CF	
N.COM	SPDT (Class A)	Flux protection	G5LA-1	
1.10° COM.	TWW.100	Sealed	G5LA-14	
1001.00	SPDT (Class F)	Flux protection	G5LA-1-CF	
0.1° × COM	WWW.	Sealed	G5LA-14-CF	
High-capacity	SPDT (Class A)	Flux protection	G5LA-1-E	
W. S. COM	DOL WWW	Sealed	G5LA-14-E	
W.100 - cOI	SPDT (Class F)	Flux protection	G5LA-1-E-CF	
M T ANY CO	ALL ALL ALL	Sealed	G5LA-14-E-CF	

Note: When ordering, add the rated coil voltage to the model number. Example: G5LA-1 $\underline{\text{DC12}}$

- Rated coil voltage

Model Number Legend

 $\mathbf{G5LA} - \underbrace{\square}_{1} \underbrace{\square}_{2} \underbrace{\square}_{3} - \underbrace{\square}_{4} - \underbrace{\square}_{5} \mathbf{DC} \underbrace{\square}_{6}$

- 1. Number of Poles
 - 1: 1 pole
- 2. Contact Form None: SPDT
 - A: SPST-NO
- 3. Enclosure Ratings None: flux protection
 - 4: fully sealed

4. Type

None: Standard E: High Capacity (SPDT only)

- 5. Insulation Class None: Class A CF: Class F
- 6. Rated Coil Voltage 5, 9, 12, 24, or 48

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Specifications

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■ Coil Ratings

Rated Voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Must operate voltage	Must release voltage	Rated power consumption (W)	Max voltage
5	72	69.4	75% max.	10% min.	Approx. 0.36	130% of rated voltage
9	40	225	N	N.V.	COMP.	at 85°C
12	30	400	WT.M.	W	1001. OM	170% of rated voltage at 23°C
24	15	1600	N.	WWW	LON.COM	ai 20 0
48	10	4800	ON.		Approx. 0.48	

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of ±10%. 2. Please avoid ultrasonic cleaning this relay.

Contact Ratings

Rated load	SPST-NO	10 A @ 250 VAC (NO) 10 A @ 24 VDC (NO)
(resistive)	SPDT	5 A @ 125 VAC (NO/NC) 5 A @ 24 VDC (NO/NC)
	High-capacity	5 A @ 250 VAC (NO/NC) 5 A @ 24 VDC (NO/NC)
Rated carry cu	urrent	10 A (SPST-NO) 10 A (High-capacity) 5 A (SPDT)
Max. switching	g voltage	250 VAC 24 VDC
Max. switching	g current	10 A SPST-NO 5 A SPDT, High-capacity
Max. switching	g capacity	2500 VA, 240 W (NO) 625 VA, 120 W (NC) 1250 VA, 120 W (NO/NC High-capacity)
Min. permissil	ble load	100 mA at DC5V (P level: $\lambda_{60} = 0.1 \times 10^{-6} / \text{ ops}$)
Contact Mater	ial	AgSnO ₂

Note: SPDT type can switch up to 10 A @ 250 VAC/24 VDC Resistive Load on NO contact if there is no load on the NC contact.

■ Characteristics

Contact resistance	100 mΩ max.
Operate time	10 ms max.
Release time	5 ms max.
Max. operating frequency	Mechanical: 18,000 operations/hr
	Electrical: 1,800 operations/hr (under rated load)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	2,000 VAC, 50/60 Hz for 1 minute between coil and contacts 750 VAC, 50/60 Hz for 1 minute between contacts of same polarity
Vibration resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude
	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Destruction: 1,000 m/s ² (approx. 100G)
	Malfunction: 100 m/s ² (approx. 10G)
Life expectancy	Mechanical: 10,000,000 operations min. (at 18,000 operations/hr under no load)
	Electrical: 100,000 operations average. (at 1,800 operations/hr under rated load)
Ambient temperature	Operating:- 40°C to 85°C (with no icing or condensation)
	Storage: -40°C to 85°C (with no icing or condensation)
Ambient humidity	Operating: 35% to 85%
	Storage: 35% to 85%
Weight	Approx. 7.5g

WWW.100X.CUM 00Y.COM.TW Approved Standards

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胜华	持力	电	子(上	:海)	86-21-34970699
胜	持力	电	子(涤	[圳)	86-755-83298787
	Htt	p:	//w	ww.	100y. com. tw

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UL Recognized (File No. E41643) & CSA Certified (File No. LR31928) - - Ambient Temp. = 40°C

	Model	Coil rating	V IV	Contact rating
G5LA	100 -	5 to 48 VDC		NO:
N N		NT.		10 A, 277 VAC, general use, 100,000 cycles
M.L		COM		10 A, 30 VDC, resistive, 50,000 cycles
W		WT		1/2 HP, 125-250VAC, 1,000 cycles
M.		CONT		10 A, 277 VAC, general use, 85°C
WT		NT. CONTRA		50,000 cycles (-CF type only)
COM		- CON.		200 W Tungsten, 125 VAC, 100,000 cycles
WT		1.1.1. S. 1.100		NC:
CONTRACT		CONT		10 A, 125 VAC, resistive
WT		1001. M.I.V.		10 A, 277 VAC, general use, 100,000 cycles (-E type only)
a CONT.		. COMP		10A, 24 VDC, resistive, 100,000 cycles (-E type only)

Model	Coil rating	Contact rating
G5LA	5,9,12,24,48 VDC	NO:
	NW.LOT CONL.	10 A, 250 VAC, resistive, 85°C
	W 1007.0 11	- flux protection: 50,000 cycles
	WW.IC CON.	- fully sealed: 10,000 cycles
	V 1001.0 M	12 A, 125 VAC, resistive, 85°C, 10,000 cycles
	NWW.P	CO:
	1001.	5 A, 250 VAC, resistive, 85°C
	STAN COM	- flux protection: 50,000 cycles
	1001	- fully sealed: 10,000 cycles

Model	Coil rating	Contact rating
G5LA	5,9,12,24,48 VDC	NO:
N.100 L. COMPLY	W.100-	10 A, 250 VAC, resistive, 10,000 cycles 12 A, 120 VAC, resistive, 10,000 cycles

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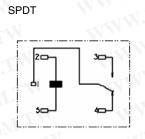
Dimensions

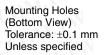
Note: All units are in millimeters unless otherwise indicated.

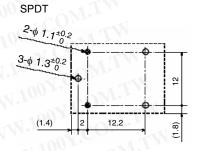
SPDT Models

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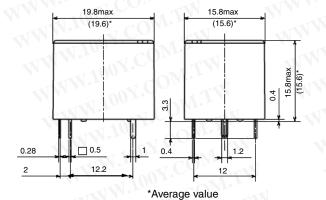
19.8max 15.8max (19.6)* (15.6)* 15.8max (15.6)* 0.4 3.3 0.4 0.5 1.2 0.28 1 0.4 2 12.2 12 *Average value







SPST-NO Models



Terminal Arrangement/Internal Connections (Bottom View)

30-

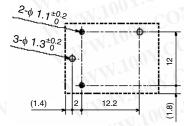
SPST-NO

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Mounting Holes (Bottom View) Tolerance: ±0.1 mm Unless specified



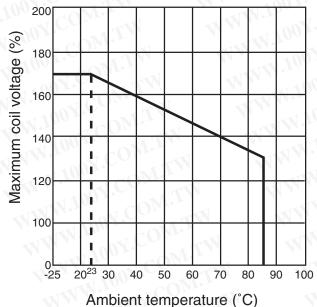


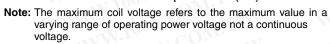
Engineering Data

10 AC 7 resistive E 5 load current 3 DC resistive Switching load 1 0.7 0.5 0.3 Ĩ 10 30 50 250 500 1,000 0 125 Switching voltage (V)

Maximum switching capacity (NO)



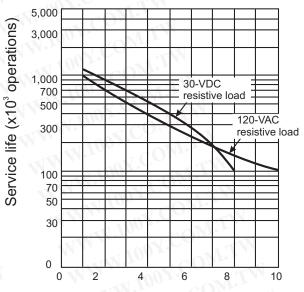




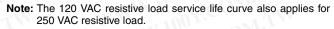


Electrical service life NO (Average value)

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Switching current (A)



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Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

1.	Definitions: The words used herein are defined as follows. (a) Terms: These terms and conditions	3.	Prohibited Use:
	(b) Seller: Omron Electronic Components LLC and its subsidiaries		SERIOUS RISK
	(c) Buyer: The buyer of Products, including any end user in section III through VI		PRODUCT IS P
	(d) Products: Products and/or services of Seller (e) Including: Including without limitation	4	WITHIN THE O
2.	<u>Offer: Acceptance:</u> These Terms are deemed part of all quotations, acknowledgments,	4.	Motorized Vehic VEHICLE APPL
	invoices, purchase orders and other documents, whether electronic or in writing, relating		SELLER.
	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	5.	Programmable
	Terms.		a programmable
3.	<u>Distributor</u> : Any distributor shall inform its customer of the contents after and including section III of these Terms.	1	Warranty: Seller
		1.	materials and w
	SALES		(or such other p
J.	<u>Prices: Payment</u> : All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at the time the purchase order is accepted by		OR REPRESEN
	Seller. Payments for Products received are due net 30 days unless otherwise stated in		PURPOSE OF
	the invoice. Buyer shall have no right to set off any amounts against the amount owing in	2.	Buyer Remedy:
2.	respect of this invoice. <u>Discounts</u> : Cash discounts, if any, will apply only on the net amount of invoices sent to		originally shippe thereof) the non
1	Buyer after deducting transportation charges, taxes and duties, and will be allowed only		amount equal to
	if (a) the invoice is paid according to Seller's payment terms and (b) Buyer has no past		liability for Selle
3.	due amounts owing to Seller. Interest: Seller, at its option, may charge Buyer 1.5% interest per month or the maximum		correctly handle
0.	legal rate, whichever is less, on any balance not paid within the stated terms.		abuse, misuse of approved in writ
	Orders: Seller will accept no order less than 200 U.S. dollars net billing.	3.	Limitation on Lia
5.	<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		SPECIAL, INDI
	Seller; provided that if remittance is not made when due, Buyer will convert the amount		PROFITS OR P WITH THE PRC
	to U.S. dollars at the then current exchange rate most favorable to Seller available		WARRANTY, N
4	during the period between the due date and the date remittance is actually made.		LIABILITY OF S
6.	<u>Governmental Approvals</u> : Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.	4	THE PRODUCT Indemnities: But
7.	Taxes: All taxes, duties and other governmental charges (other than general real	4.	employees from
	property and income taxes), including any interest or penalties thereon, imposed directly		attorney's fees a
	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		(whether or not omissions unde
	sold hereunder (including customs duties and sales, excise, use, turnover and license		
	taxes) shall be charged to and remitted by Buyer to Seller.		INFORMATIC
8.	<u>Financial</u> : 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	1.)	Intellectual Prop property of Selle
	advance. If Buyer fails to make payment or otherwise comply with these Terms or any		without the writt
	related agreement, Seller may (without liability and in addition to other remedies) cancel		hold harmless S
	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,		that it is based of intellectual prop
	which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid	2.	Property: Confic
0	accounts.		tooling, all engin
9.	<u>Cancellation; Etc:</u> Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.		information and confidential and
10.	<u>Force Majeure</u> : Seller shall not be liable for any delay or failure in delivery resulting from		employees and
	causes beyond its control, including earthquakes, fires, floods, strikes or other labor	3.	Performance Da
	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.		and does not co and the users m
11.	<u>Shipping: Delivery:</u> Unless otherwise expressly agreed in writing by Seller:	4.	Change In Spec
	(a) All sales and shipments of Products shall be FOB shipping point (unless otherwise		any time based
	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		numbers when pendineering cha
	the Products until the full purchase price is paid by Buyer;		changed withou
	(b) Delivery and shipping dates are estimates only; and	5.	Errors And Omi
	(c) Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.		has been carefu assumed for cle
12.	<u>Claims:</u> Any claim by Buyer against Seller for shortage or damage to the Products	6.	Export Controls
	occurring before delivery to the carrier or any claim related to pricing or other charges		regarding (a) ex
	must be presented in detail in writing to Seller within 30 days of receipt of shipment.		Products to forb
	PRECAUTIONS		citizens of regul
1.	Suitability: IT IS THE BUYER'S SOLE RESPONSIBILITY TO ENSURE THAT ANY		. MISCELLAN
	OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING	1.	Waiver: No failu between Buyer
	APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE	2.	Assignment: Bu
	BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC	3.	Law: These Ter
	COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT.		Federal and sta dispute hereund
	Buyer acknowledges that it alone has determined that the Products will meet their	4.	
	requirements of the intended use in all cases. Buyer must know and observe all		relating to the P
2.	prohibitions of use applicable to the Product/s. Use with Attention: The followings are some examples of applications for which	5.	signed by the pa Severability: If a
2.	particular attention must be given. This is not intended to be an exhaustive list of all	5.	not invalidate ar
	possible use of any Product, nor to imply that any use listed may be suitable for any		
	Product: (a) Outdoor use, use involving potential chemical contamination or electrical		
	interference.		

(b) 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 (d)
- Initial equipment, and sentent machines, venicles, safety equipment, and installations subject to separate industry or government regulations. Systems, machines, and equipment that could present a risk to life or property. <u>hibited Use:</u> NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING RIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OULCT IS PROPERTY PATED AND INSTALLED FOR THE RISKS, AND THAT THE ROPERLY RATED AND INSTALLED FOR THE INTENDED USE VERALL EQUIPMENT OR SYSTEM.
- le Application: USE OF ANY PRODUCT/S FOR A MOTORIZED ICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY
- Products: Seller shall not be responsible for the Buyer's programming of Product.

AND LIMITATION

- 's exclusive warranty is that the Products will be free from defects in orkmanship for a period of twelve months from the date of sale by Seller eriod expressed in writing by Seller). SELLER MAKES NO WARRANTY ITATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, MENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR THE PRODUCTS.
- Seller's sole obligation hereunder shall be to replace (in the form d with Buyer responsible for labor charges for removal or replacement -complying Product or, at Seller's election, to repay or credit Buyer an the purchase price of the Product; provided that there shall be no or its affiliates unless Seller's analysis confirms that the Products were d, stored, installed and maintained and not subject to contamination, or inappropriate modification. Return of any Products by Buyer must be
- ability: Seller before shipment. ability: SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR RECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF RODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED EQUIC TION OR COMMERCIAL LOSS IN ANY WAY CONNECTED DDUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, EGLIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL SELLER OR ITS AFFILITATES EXCEED THE INDIVIDUAL PRICE OF T ON WHICH LIABILITY IS ASSERTED.
- yer shall indemnify and hold harmless Seller, its affiliates and its and against all liabilities, losses, claims, costs and expenses (including and expenses) related to any claim, investigation, litigation or proceeding Seller is a party) which arises or is alleged to arise from Buyer's acts or these Terms or in any way with respect to the Products

DN; ETC.

- <u>perty</u>: The intellectual property embodied in the Products is the exclusive er and its affiliates and Buyer shall not attempt to duplicate it in any way en permission of Seller. Buyer (at its own expense) shall indemnify and eller and defend or settle any action brought against Seller to the extent on a claim that any Product made to Buyer specifications infringed erty rights of another party.
- <u>dentiality</u>: Notwithstanding any charges to Buyer for engineering or neering and tooling shall remain the exclusive property of Seller. All materials supplied by Seller to Buyer relating to the Products are Indefiais supplied by Science buyer relating to the robusts are I proprietary, and Buyer shall limit distribution thereof to its trusted strictly prevent disclosure to any third party. <u>ata</u>: Performance data is provided as a guide in determining suitability
- institute a warranty. It may represent the result of Seller's test conditions, just correlate it to actual application requirements.
- ifications: Product specifications and descriptions may be changed at on improvements or other reasons. It is Seller's practice to change part published ratings or features are changed, or when significant nges are made. However, some specifications of the Product may be t any notice.
- ssions: The information on Seller's website or in other documentation lilly checked and is believed to be accurate; however, no responsibility is rical, typographical or proofreading errors or omissions.
- Buyer shall comply with all applicable laws, regulations and licenses port of the Products or information provided by Seller; (b) sale of idden or other proscribed persons or organizations; (c) disclosure to non ated technology or information.

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- re or delay by Seller in exercising any right and no course of dealing and Seller shall operate as a waiver of rights by Seller.
- yer may not assign its rights hereunder without Seller's written consent. ms are governed by Illinois law (without regard to conflict of laws). te courts in Cook County, Illinois have exclusive jurisdiction for any
- ese Terms constitute the entire agreement between Buyer and Seller roducts, and no provision may be changed or waived unless in writing arties
- ny provision hereof is rendered ineffective or invalid, such provision shall WWW.100 ny other provision.

Certain Precautions on Specifications and Use

- <u>Suitability for Use</u>. Seller shall not be responsible for conformity with any stan-dards, 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 pro-1. vide applicable third party certification documents identifying ratings and limi-tations 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 com-Sufficient for a complete determination of the suitability of the Product in com-bination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the par-ticular 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.

 - 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
 - (iiii)
 - Use in consumer products or any use in significant quantities. Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this (iv) product

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 pro-gramming 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 war-ranty. 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 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 prac-tice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifica-tions of the Product may be changed without any notice. When in doubt, spe-cial part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Seller representative at any time to confirm 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
- 5.
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