

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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CSM_G32A-C_DS_E_1_2

Refer to Safety Precautions for All Solid State Relays.

Prevents G3PA Malfunction

- Connects to a maximum of two G3PA-VD Relays.
- Prevents malfunction of the G3PA-VD due to residual voltage, leakage current, or input noise.





For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Model Number Structure

■ Model Number Legend

G32A-C-US

1. Basic Model Type

G32A: Accessory for G3PA

2. Basic Model Name

C: Voltage Detection Unit

3. Certification

US: Certified by UL and CSA

Ordering Information

■ List of Models

| Name | Rated input voltage | Model |
|------------------------|---------------------|-----------|
| Voltage Detection Unit | 12/24 VDC | G32A-C-US |

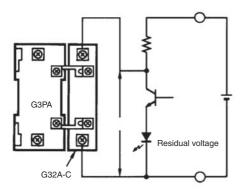
Note: When ordering, specify the rated input voltage.

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Application Examples

 The G32A-C can be used to prevent malfunction due to residual voltage, leakage current, and input noise.

Residual Voltage



In rated operation, the G3PA turns ON at 4 V max. Ordinarily, the G3PA might turn ON if the residual voltage in transistor circuits exceeds 3 V. (The G32A-C makes voltage output at voltages exceeding 9.6 V.)

- The G32A-C can be used to improve the synchronization of input signals during 3-phase load switching.
- The G32A-C can be used to fix the trigger voltage when using a timing circuit.

Specifications

■ Ratings (at an Ambient Temperature of 25°C)

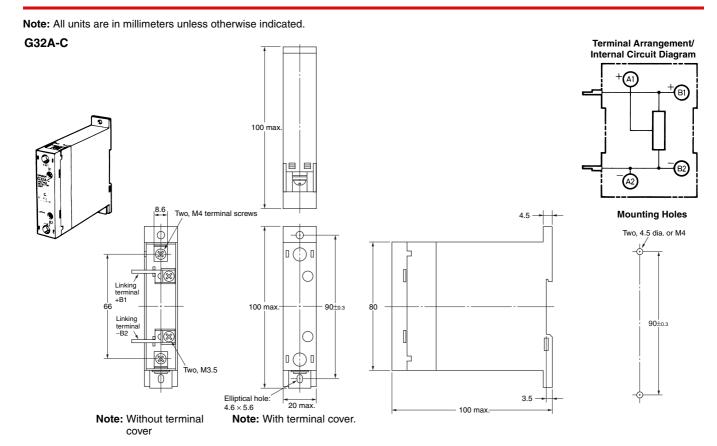
| Item | | Specifications |
|----------------------|-----------|----------------------------------|
| Rated input voltage | | 12/24 VDC |
| Rated input current | One G3PA | 8 mA max. (when 24 VDC applied) |
| | Two G3PAs | 14 mA max. (when 24 VDC applied) |
| Must operate voltage | · | 9.6 V ±10% |
| Must release voltage | | 5 V min. |
| Output voltage | | 12 VDC ±15% |

■ Characteristics

| Item | Specifications | |
|----------------------------|--|--|
| Input voltage range | 10.2 to 30 VDC | |
| Operate time | 1 ms max. | |
| Release time | 1 ms max. | |
| Vibration resistance | 10 to 55 to 10 Hz, 0.375-mm single amplitude (when mounted using screws) | |
| Shock resistance | 300 m/s² (approx. 30 G) | |
| Ambient temperature | Storage: -30 to 100°C (with no icing or condensation) Operating: -30 to 80°C (with no icing or condensation) | |
| Ambient operating humidity | 45% to 85% | |
| Weight | Approx. 65 g | |

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Dimensions



Safety Precautions

Refer to Safety Precautions for All Solid State Relays.

■ Precautions for Correct Use

Refer to G3PA for the linking terminal connection procedure.

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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Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments

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- Systems, machines, and equipment that could present a risk to life or property.

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Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

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In the interest of product improvement, specifications are subject to change without notice.

