

Voltage Detection Unit

G32A-C

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 2 3

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

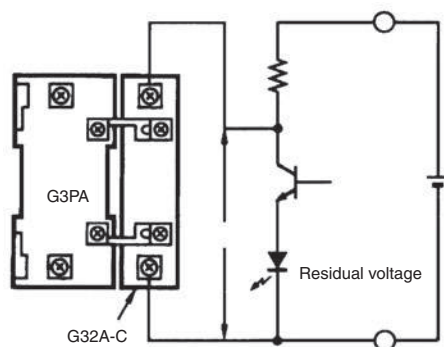
Name	Rated input voltage	Model
Voltage Detection Unit	12/24 VDC	G32A-C-US

Note: When ordering, specify the rated input voltage.

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 \pm 10%
Must release voltage		5 V min.
Output voltage		12 VDC \pm 15%

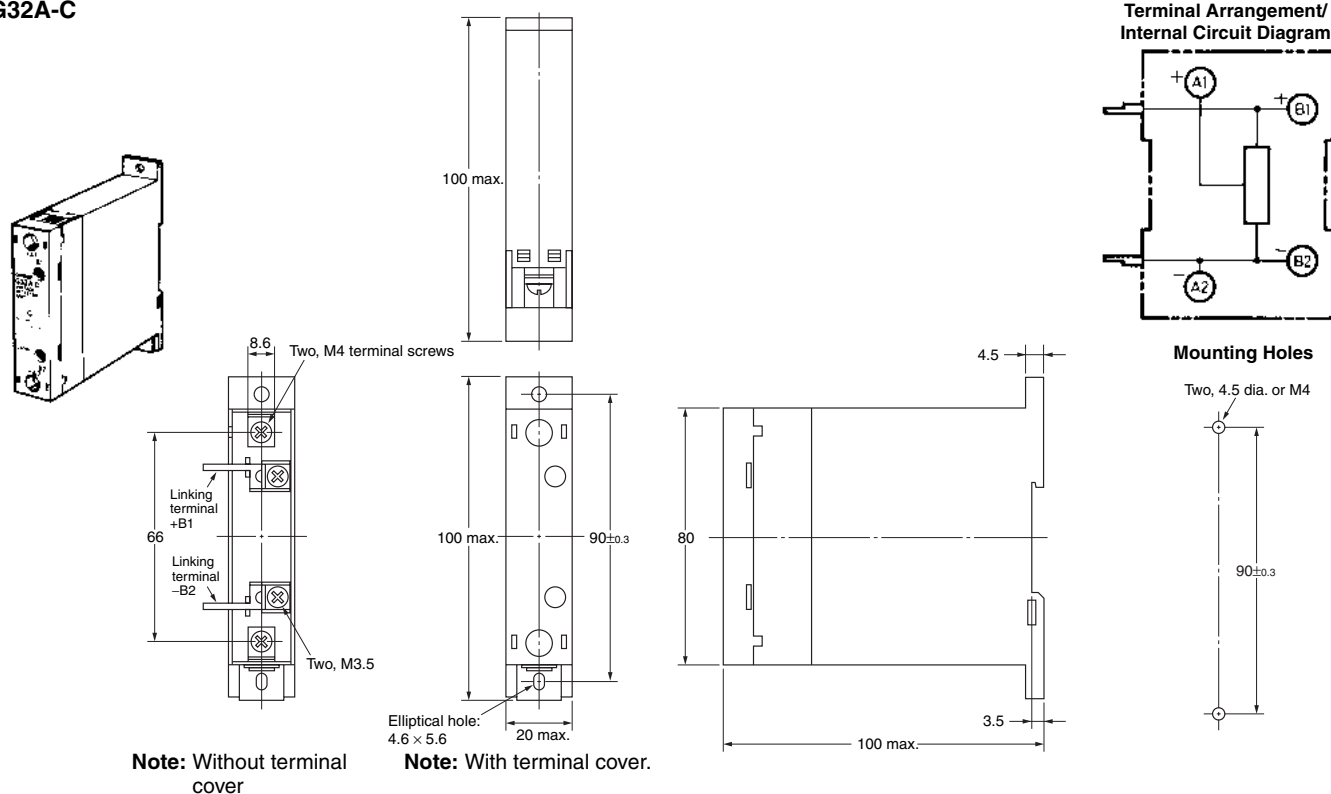
■ Characteristics

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/s ² (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

Dimensions

Note: All units are in millimeters unless otherwise indicated.

G32A-C



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.

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

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Application Considerations

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

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Disclaimers

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DIMENSIONS AND WEIGHTS

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

PERFORMANCE DATA

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