OMRON

Mini-280 Automotive Relay

General Purpose Automotive Power Relay

- \bullet Wide temperature range: -40° C to 125° C.
- Standard ISO terminal footprint.
- Handles heavy automotive load; inrush current 100 A.
- High current path fully welded; reduces heat buildup at full load.
- Made in North America.



Ordering Information

Terminal type	Contact form	Description	Model
Plug in 280	SPST-NO	Standard with resistor	G8W-1A7T-R-DC12
	SPDT	Standard with resistor	G8W-1C7T-R-DC12
	SPST-NO	Weatherproof with resistor	G8W-1A6T-R-DC12
	SPDT	Weatherproof with resistor	G8W-1C6T-R-DC12
	SPST-NO	Weatherproof with straight metal bracket with resistor	G8W-1A6T-F-R-DC12
	SPDT	Weatherproof with straight metal bracket with resistor	G8W-1C6T-F-R-DC12

Specifications

Contact Data

Max. resistive load	35 A/20 A (NO/NC)
Contact voltage drop (initial value @ 23°C)	≤175 mV (NO)/ ≤100 mV (NC)
Max. inrush current	Inductive load: 100 A inrush/20 A break (NO)

Ratings

Rated voltage	DC 12 V
Operating voltage	DC 10 to 16 V
Coil resistance (see note 1)	91 Ω ±15%
Pick up voltage	8.0 at +23° C
Drop-out voltage	1 V at 23°C
Duty cycle at rated load (16 V at 80 $^{\circ}$ C)	Up to 100%
Operate time (at 23° C)	20 ms @ 12 VDC
Release time (at 23° C)	10 ms @ 12 VDC
Operating ambient temperature	-40° C to +125° C
Mechanical life	1,000,000 operations min.
Electrical life (resistive load)	Min. 100,000 operations (14 V; 35 A)
Weight	Approx. 34 g

Note: 1. Coil resistance specified is without the suppression resistor.

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

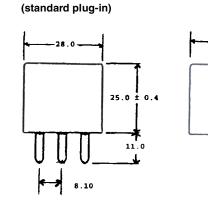
Dimensions

Unit: mm

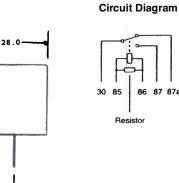
■G8W

Terminal Configuration





Dimensions



87 87a

Note: Omit terminal 87a in the SPST-NO version.

Omron Electronic Components, LLC

Terms and Conditions of Sales

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- Definitions: The words used herein are defined as follows.
- Terms: These terms and conditions (a)
- Ìb) Seller: Omron Electronic Components LLC and its subsidiaries
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- Products: (d)
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- Use in consumer Products or any use in significant quantities. (b)

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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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