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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.

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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Mini-280 Automotive Relay G8W

General Purpose Automotive Power Relay

- 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°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

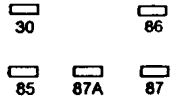
- Note:** 1. Coil resistance specified is without the suppression resistor.
2. In the interest of product improvement, specifications are subject to change without notice.

Dimensions

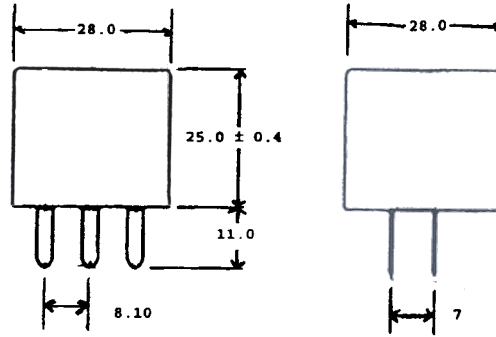
Unit: mm

■ G8W

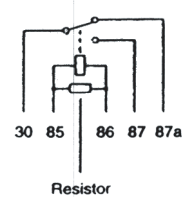
Terminal Configuration



Dimensions (standard plug-in)



Circuit Diagram



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

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OMRON®

**OMRON ELECTRONIC
COMPONENTS LLC**

55 E. Commerce Drive, Suite B
Schaumburg, IL 60173

847-882-2288

OMRON CANADA, INC.

885 Milner Avenue
Toronto, Ontario M1B 5V8

416-286-6465

OMRON ON-LINE

Global - <http://www.omron.com>

USA - <http://www.components.omron.com>

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