Automotive Relay G8JN

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	Cover	Resistor	Bracket	Model
Plug in	SPDT	Standard			G8JN-1C7T-DC12
				Molded plastic	G8JN-1C7T-MF-DC12
			680 Ω		G8JN-1C7T-R-DC12
			680 Ω	Molded plastic	G8JN-1C7T-MF-R-DC12
		Weatherproof			G8JN-1C6T-DC12
			680 Ω		G8JN-1C6T-R-DC12
			680 Ω	Metal	G8JN-1C6T-F-R-DC12
				Metal	G8JN-1C6T-F-DC12

Specifications

■ Contact Data

Max. resistive load	SPDT	35 A (NO) / 20 A (NC)
Contact voltage drop (Initial value at 23° C)		≤200 mV (NO) / ≤100 mV (NC)
Max. inrush current	Inductive load	100 A (NO) / 40 A (NC)

■ Coil Data

Rated voltage	12 VDC
Operating voltage	10-16 VDC
Coil resistance (see note)	$74~\Omega\pm15\%$
Pick-up voltage	8 V (23°)
Dropout voltage	1 V at 23° C

 $\textbf{Note:} \ \ \textbf{Coil} \ \ \textbf{resistance specified is without the suppression resistor.}$

■ Characteristics

Operate time at 23° C	20 ms max @ 12 VDC	
Release time at 23° C	10 ms max @ 12 VDC	
Insulation resistance	> 20 MΩ @500 VDC	
Shock resistance	10G min.	
Vibration resistance	9G min.	
Duty cycle at rated load [16V at 80° C]	Up to 100%	
Mechanical life	1,000,000 operations min.	
Electrical life (resistive load)	100,000 operations minimum (14V / 35A)	
Operating ambient temperature	-40° to 125° C	
Weight	Approx. 34g	

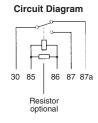
Note: Data shown are of initial value.

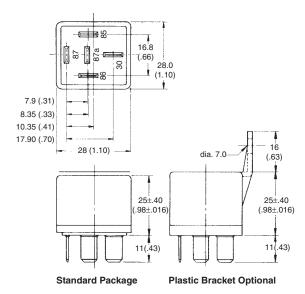
Dimensions

Unit: mm (inch)

■ SPDT Plug-in Type

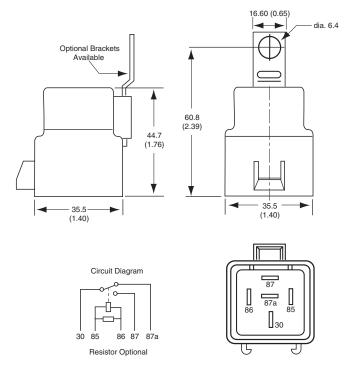
G8JN-1C7T- □□□





■ SPDT Plug-in Weatherproof Type

G8JN-1C6T- □□□



Note: In the interest of product improvement, specifications are subject to change.

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

- Definitions: The words used herein are defined as follows:
 - Terms: These terms and conditions

Seller: Omron Electronic Components LLC and its subsidiaries

The buyer of Products, including any end user in section III through VI Products and/or services of Seller Buyer:

Products: (d)

Including without limitation Including:

- Offer: Acceptance: These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating 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
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- legal rate, whichever is less, on any balance not paid within the stated terms.

 Orders: Seller will accept no order less than 200 U.S. dollars net billing.

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- handling and extra charges apply to special conditions.

 12. Claims: Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

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- Programmable Products: Seller shall not be responsible for the Buyer's programming of a programmable Product

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 (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.

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

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Cat. No. J01C-E-01 01/07

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