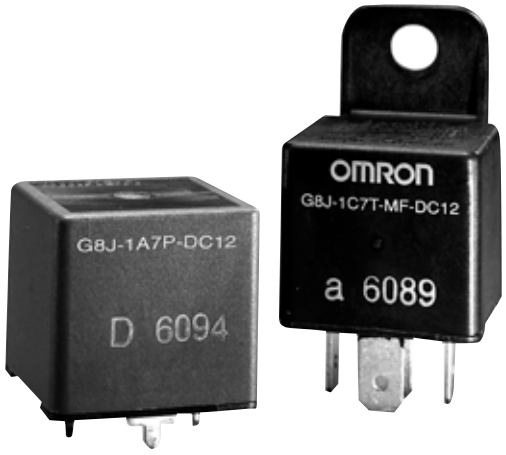
OMRON

Automotive Relay — G8J

General Purpose Automotive Power Relay

- Standard ISO terminal footprint
- Handles heavy automotive load; inrush current 100A
- High current path fully welded; reduces heat buildup at full load
- Made in North America



Ordering Information

Terminal type	Contact form	Cover	Resistor	Bracket	**Part number**
PCB	SPST-NO	Standard	—	—	**G8J-1A7P-DC12**
PCB	SPST-NO	Standard	680Ω	—	**G8J-1A7P-R-DC12**
Plug In	SPDT	Standard	—	—	**G8J-1C7T-DC12**
Plug In	SPDT	Standard	—	Molded Plastic	**G8J-1C7T-MF-DC12**
Plug in	SPDT	Standard	680Ω	—	**G8J-1C7T-R-DC12**
Plug In	SPDT	Standard	680Ω	Molded Plastic	**G8J-1C7T-MF-R-DC12**
Plug In	SPDT	Weatherproof	—	—	**G8J-1C6T-DC12**
Plug In	SPDT	Weatherproof	680Ω	—	**G8J-1C6T-R-DC12**
Plug In	SPDT	Weatherproof	680Ω	Metal	**G8J-1C6T-F-R-DC12**
Plug In	SPDT	Weatherproof	—	Metal	**G8J-1C6T-F-DC12**

Specifications

■ CONTACT DATA

Max. resistive load	SPST	40A
	SPDT	40A(NO) / 20A(NC)
Contact voltage drop [Initial value at 23°C (73°F)]		≤150mV(NO) / ≤175mV(NC)
Max. inrush current	Inductive load	100A inrush / 20A break(NO)
	Capacitive load	300A inrush(NO)

■ COIL DATA

Rated voltage	12 VDC
Operating voltage	10-16 VDC
Coil resistance	78Ω ± 10%
Pick-up voltage	8V at 23°C (73°F) 11V at 125°C (257°F)
Dropout voltage	1V at 23°C (73°F)

Downloaded from Arrow.com.

■ CHARACTERISTICS

Operate time at 23°C (73°F)	5 ms max.
Release time at 23°C (73°F)	4 ms max.
Duty cycle at rated load [16V at 80°C (176°F)]	Up to 100%
Mechanical life	10,000,000 operations minimum at 18,000 operations/hour
Electrical life (resistive load)	100,000 operations minimum (14V / 35A)
Operating ambient temperature	-40° to 125°C (-40° to 257°F)
Weight	Approx. 40g

Note: Data shown are of initial value.

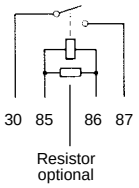
Dimensions

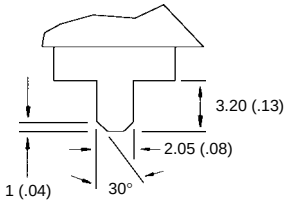
Unit: mm (inch)

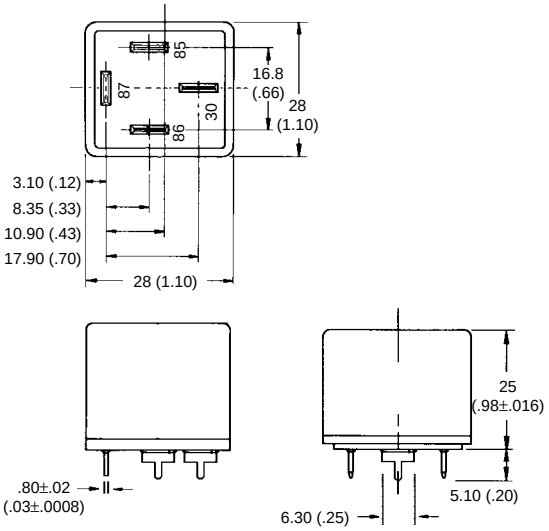
■ SPST PCB TYPE

G8J-1A7P-___

Circuit Diagram



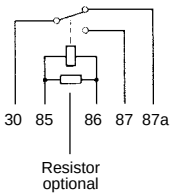


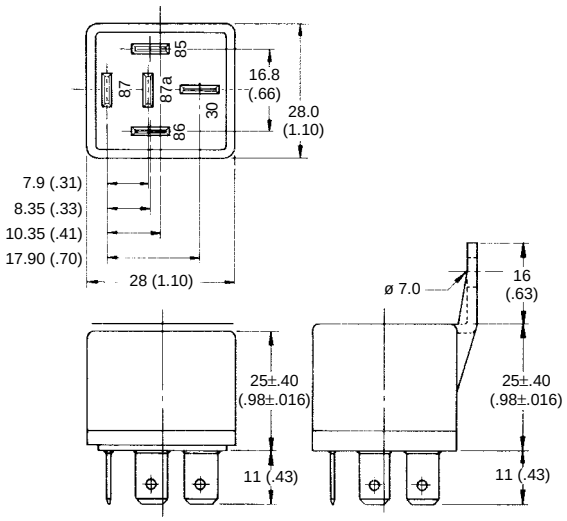


■ SPDT PLUG-IN TYPE

G8J-1C7T-___

Circuit Diagram





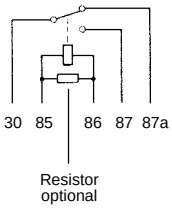
Standard Package **Plastic Bracket Optional**

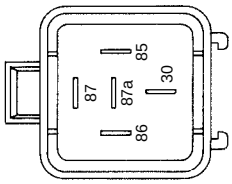
Downloaded from Arrow.com.

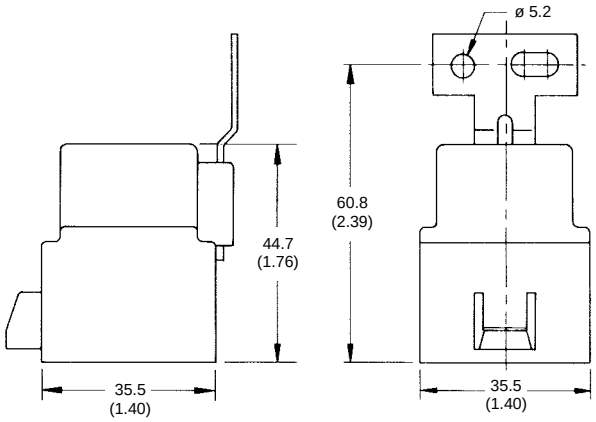
■ SPDT PLUG-IN WEATHERPROOF TYPE

G8J-1C6T-___

Circuit Diagram







Metal Bracket Optional

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

OMRON

OMRON ELECTRONICS, INC.
One East Commerce Drive
Schaumburg, IL 60173
1-800-55-OMRON

OMRON CANADA, INC.
885 Milner Avenue
Scarborough, Ontario M1B 5V8
416-286-6465

Cat. No. GC RLY6 9/97 Specifications subject to change without notice. Printed in the U.S.A.

Downloaded from Arrow.com.