

- SPDT version.
- 10A Continuous Contact Rating @85°C.
- 10A, 16VDC Switching Rating.
- 30A Inrush on N.O. at 16VDC.
- Fully automated assembly.
- Dimensions (Max) 22.5 x 16.5 x 16.5 mm
- Made in Canada.

Available Types

Type	Description
G8SN-1C4P-DC12	Sub-Miniature, SPDT, PCB Mount

Contact Data

Max Switching Current	Inrush 30A, Steady 10A
Max Switching Voltage	16V
Min. Carry / Switching Current	1A
Contact Material	Silver Tin Oxide (Cadmium Free)

Coil Ratings (at 20°C)

Type	Rated Voltage	Coil Resistance ±10%	Nominal Power Consumption	Pull in Voltage	Dropout Voltage
G8SN-1C4P-DC12	12VDC	180 Ω	0.8 W	7.3 V max @ 23°C	0.6 V min. @ 23°C

Typical Applications

Car Audio	Courtesy Lamp
Power Window	Electric Sunroof
Power Door Lock	Power Seat

Characteristics

Max. Initial Contact Voltage Drop	25mV @ 1A	
NO Activation Time	10 ms max. (4.3 ms typical) @ 14 V	
NO Deactivation Time	10 ms max. (2.6 ms typical*) @ 14 V	
Insulation resistance	20 MΩ min (at 500 VDC)	
Dielectric strength	1.0 mA max. leakage at 900 VAC, 50-60 Hz for 1 sec between coil and contacts and between contacts.	
Ambient Operating Temperature	-40°C to 85°C	
Humidity	Up to 97%	
Service life	Mechanical	1,000,000 operations min.
	Electrical	100,000 operations min (load dependent).
Weight	13g	

* Typical data includes coil suppression. Release times may decrease without coil suppression.

Characteristic Reference Data

Durability Data

Relay	Load Type	Current	Cycles Tested
G8SN	N.O./N.C. Reversing Motor Load	20 A Inrush	100,000 + 100,000 3s on, 3s off
		6 A Steady State	
	N.O./N.C. Rear Wiper Motor Load	10 A Inrush	200,000 1s on, 4s off
		1 A Steady State	
	N.O. Starter Load	N/A Inrush	300,000 0.8s on, 9.2s off
		26 – 38 A Steady State	
	N.O. Magnet Clutch Load	N/A Inrush	300,000 2s on, 2s off
		3.8 A Steady State	
	N.O. Door Lock Motor Load	N/A Inrush	200,000 0.2s on, 19.8s off
		25 A Steady State	

Dimensions

