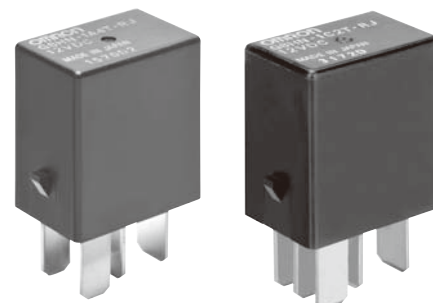


Standard micro ISO plug-in relay for Automotive and DC12 V/24 V applications

G8HN

General, multi-purpose relay

- DC12V, DC24V coil
- High-wattage
- Surge suppression, diode type available
- Fully sealed type (Protective structure)
- Bracket and rubber suspension type available
- High wattage type meets mini ISO wattage specification
- High contact reliability due to low terminal temperature rise.



Purpose

- DC 12 V/24 V motor/resistive application control
- Automotive DC applications (Main power, Radiator fan, Deffoger, Head lamp, DC/DC Converter, Motor control for Commercial vehicle, etc.)

Type standard

G8HN-□□□□-□□
1 2 3 4 5 6

1. Number of contact poles

1: 1-pole

2. Contact structure

A: 1a contact

C: 1c contact

Note. Built-in diode available

3. Protective structure

2: Unsealed (In a case)

4: Simple plastic seal

4. Terminal form

T: Plug-in terminal

5. Surge suppressor

D: Built-in diode

R: Built-in resistor

6. Kind

J: Standard spec

H: High current spec

Classification

Classification	Terminal form	Contact structure	Protective structure	Rated coil		Model	Characteristics
				Voltage (V)	Resistance (Ω)		
Micro ISO	Plug-in ISO terminal	SPST(1a)	Unsealed (In a case)	DC24	315.1	G8HN-1A2T-RJ DC24	Standard
				DC12	95.9	G8HN-1A2T-RJ DC12	High-current
					124.2	G8HN-1A2T-RH DC12	
			Simple plastic seal	DC24	315.1	G8HN-1A4T-RJ DC24	Standard
				DC12	95.9	G8HN-1A4T-RJ DC12	High-current
					124.2	G8HN-1A4T-RH DC12	
		SPDT(1c)	Unsealed (In a case)	DC24	315.1	G8HN-1C2T-RJ DC24	Standard
				DC12	95.9	G8HN-1C2T-RJ DC12	High-current
					124.2	G8HN-1C2T-RH DC12	
			Simple plastic seal	DC24	315.1	G8HN-1C4T-RJ DC24	Standard
				DC12	95.9	G8HN-1C4T-RJ DC12	High-current
					124.2	G8HN-1C4T-RH DC12	

■ Ratings

● Operation coil

Rated voltage (V)	Coil resistance(Ω)		Rated current (mA)	Operating voltage (V)	Release voltage (V)	Service voltage range (V)	Rated power consumption (mW)
	Between terminals	(Surge suppression)					
DC	12	95.9	(1.1k, 1/4 W)	125	8.0 or less	1.2 or more	1502
	12	124.2		97	8.0 or less	1.2 or more	1159
	24	315.1	(4.3k, 1/4 W)	76	16.0 or less	2.4 or more	1828

● Switching area

Item		Performance		
Contact material		Silver alloy		
Kinds		Standard		High-current
Rated voltage		DC12 V	DC24 V	DC12 V
Rated load	N.O. side	Resistance load, 20 A	Resistance load, 10 A	Resistance load, 35 A
	N.C. side	Resistance load, 10 A	Resistance load, 5 A	Resistance load, 20 A
Inrush current	N.O. side	100 A	50 A	120 A
	N.C. side	60 A	30 A	60 A
Continuous carry current *1	N.O. side	20 A	10 A	35 A
	N.C. side	10 A	5 A	20 A
Min. Carry / Switching Current		DC 12 V 1 A		

(Reference)

■ Performance

Item		Standard value		
		Standard		High-current
Rated voltage		DC12 V	DC24 V	DC12 V
Voltage drop between terminals	N.O. side	200 mV or less, 20 A	200 mV or less, 10 A	200 mV or less, 35 A
	N.C. side	200 mV or less, 10 A	200 mV or less, 5 A	200 mV or less, 20 A
Operating time *2		10 ms or less		
Release time *2		15 ms or less		
Insulation resistance *3	Between coil and terminal	10 MΩ or more		
	Between homopolar contacts	10 MΩ or more		
Withstand voltage *4	Between coil and terminal	AC500 V for 1minute		
	Between homopolar contacts	AC500 V for 1minute		
Vibration tolerance	Durability	33 Hz 43.1 m/s ²		
	Malfunction (Detection:1ms)	20 to 500 Hz 43.1 m/s ²		
Shock resistance	Durability	1000 m/s ² (Operation time:6 ms)		
	Malfunction (Detection:1ms)	100 m/s ² (Operation time:11 ms)		
Mechanical endurance		1,000,000 times or more		
Electrical endurance		100,000 times		
Ambient temperature		-40 to +100°C		
Ambient humidity		35 to 85% RH		
Weight		Approx. 20.0 g		

■ Packing

Packing form	Tray
MOQ *5	500 pcs (50 pcs × 10 trays)

Note. All values above are measured in early time under an ambient temperature of +20°C and humidity of 65% unless stated.

*1. The value stated is at maximum temperature in a guaranteed ambient temperature.

*2. It changes depend on how the rated voltage is operated, but bounce-time is not included.

*3. Measured at DC500 V.

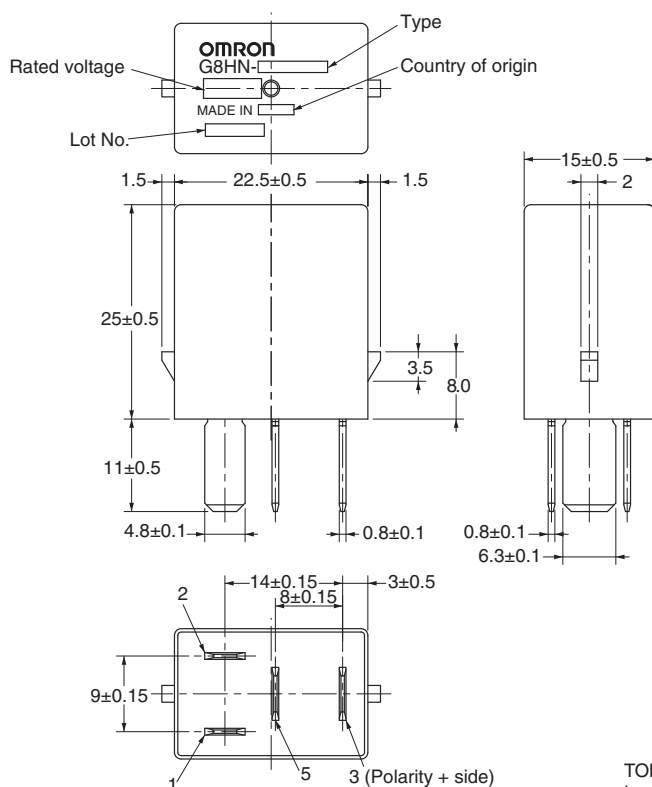
*4. Measured under 1 mA of leak current, 50/60 Hz for 1minute.

*5. Minimum Order Quantity is subject to change, please feel free to contact our sales representatives.

■Dimensions

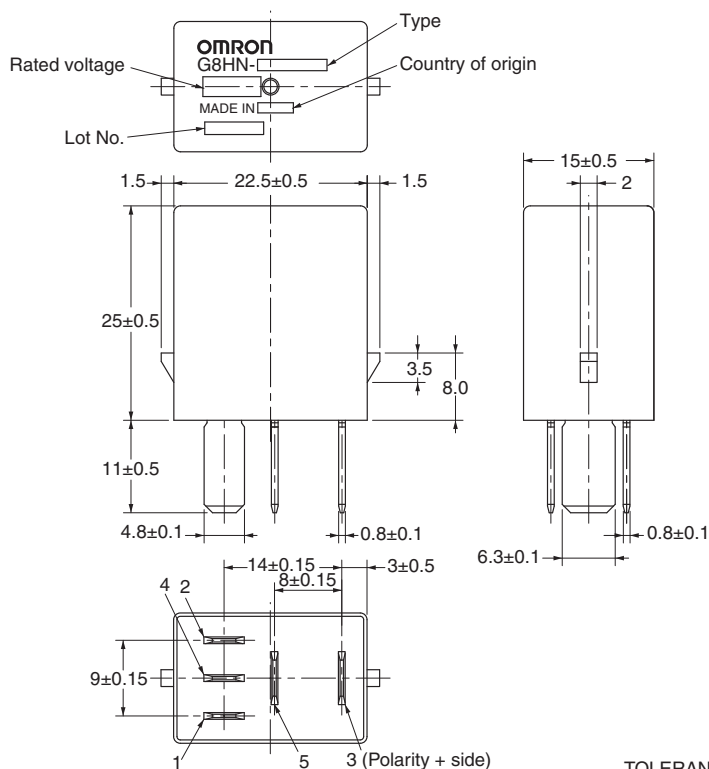
(Unit: mm)

G8HN(SPST)



TOLERANCE UNLESS OTHERWISE SPECIFIED
 Less than 1 mm : ± 0.1 mm
 1 to 3 mm : ± 0.2 mm
 More than 3 mm : ± 0.3 mm
 () is reference dimension

G8HN(SPDT)



TOLERANCE UNLESS OTHERWISE SPECIFIED
 Less than 1 mm : ± 0.1 mm
 1 to 3 mm : ± 0.2 mm
 More than 3 mm : ± 0.3 mm
 () is reference dimension

■Precautions

●Please refer to “Safety Precautions for All Automotive Relays” for correct use.

Please check each region's Terms & Conditions by region website.

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