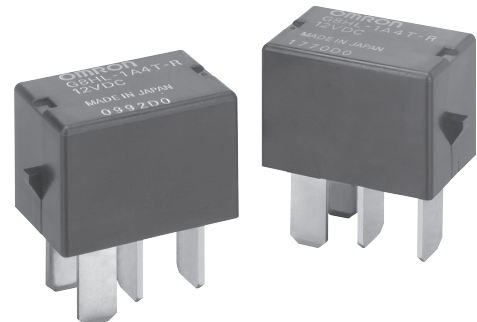


Low Profile Micro ISO relay

G8HL

Low profile relay

- The height is approximately half of a typical Micro ISO relay.
- Smaller, less heating and capable to carry high current.



■Purpose

- Head lamp, Blower fan, Defogger, etc.

■Type standard

G8HL-□□□□-□
1 2 3 4 5

1. Number of contact poles

1: 1-pole

2. Contact structure

A: 1a contact

3. Protective structure

4: Simple plastic seal

4. Terminal form

T: For Plug-in

5. Surge suppressor function

R: Built-in resistor

■Classification

Classification	Contact structure	Protective structure	Rated coil		Model
			Voltage (V)	Resistance (Ω)	
Micro ISO	SPST (1a)	Simple plastic seal	DC12	150	G8HL-1A4T-R DC12

■ Ratings

● Operation coil

Rated voltage (V)	Terminal form (Ω)		Rated current (mA)	Operating voltage (V)	Release voltage (V)	Max. of applied voltage (20A conduct, 100°C) (V)	Service voltage range (V)	Rated power consumption (mW)
		(Surge suppression)						
DC12	150	(1.1k, 1/4 W)	80	8.0 or less	0.7 or more	DC16, continuous	DC10 to 16	960

● Switching area

Item	Performance	
Contact material	Silver alloy	
Rated voltage	DC12 V	
Rated load	Resistance load, 20 A	
Inrush current	100 A	
Continuous carry current *1	20 A *1	
Allowable carrying current	30 A at DC14 V (30 min.) *2	(Reference)
Min. Carry / Switching Current	DC12 V 1 A	

■ Performance

Item		Standard value
		G8HL-1A4T-R DC12
Voltage drop between terminals		200 mV or less, 20 A
Operating time *3		10 ms or less
Release time *3		15 ms or less
Insulation resistance *4	Between coil and terminal	10 MΩ or more
	Between homopolar contacts	10 MΩ or more
Withstand voltage *5	Between coil and terminal	AC500 V for 1 min.
	Between homopolar contacts	AC500 V for 1 min.
Vibration tolerance	Durability	33 Hz 43.1 m/s ²
	Malfunction (Detecting time: 1 ms)	20 to 500 Hz 43.1 m/s ²
Shock resistance	Durability	1000 m/s ² (Operating time: 6 ms)
	Malfunction (Detecting time: 1 ms)	100 m/s ² (Operating time: 11 ms)
Mechanical endurance (Switching frequency: 18,000 times/h)		1,000,000 times
Electrical endurance (Rated load)		100,000 times
Ambient temperature		-40 to 100°C
Ambient humidity		35 to 85% RH
Weight		14 g

■ Packing

Type	G8HL-T
Packing form	Tray
MOQ *6	For Japan 500 pcs (50 pcs ×10 trays) For Other countries 1200 pcs (150 pcs ×8 trays) or 800 pcs (100 pcs ×8 trays) *7

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. This is an acceptable current-carrying value in abnormal, and this is not a value which guarantee a repeat current-carrying. Please check under actual use condition before use.

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

*4. Measured at DC500 V.

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

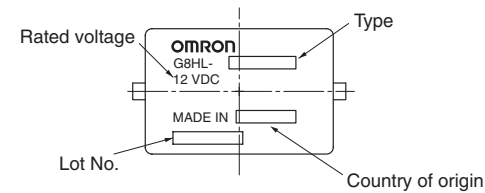
*6. Minimum Order Quantity is subject to change, please feel free to contact our sales representatives.

*7. Each factory has each Minimum Order Quantity. Please feel free to contact our sales representatives.

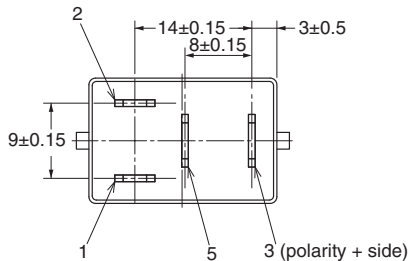
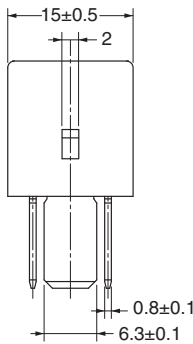
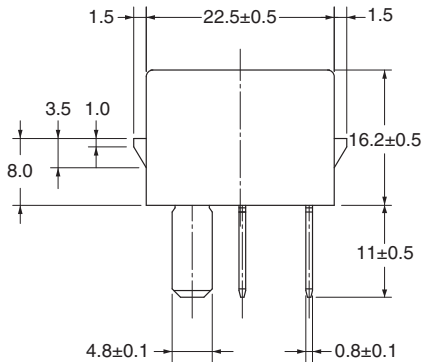
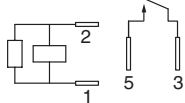
■Dimensions

(Unit: mm)

G8HL



Terminal arrangement /
Internal connections
(BOTTOM VIEW)



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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