

# Subminiature PCB Telecom Relay

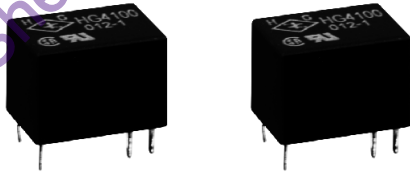
# HG4100 HG4100B

## FEATURES

- Small size, light weight
- DIL pitch PCB mounting
- 3 coil sensitivity type for choice
- High performance/cost ratio

## TYPICAL APPLICATIONS

- Computer peripherals
- Data exchange systems
- Home appliances
- Acoustic control toys



## CONTACT RATING

Form	1 Form C (Z)
Resistive	1A, 120VAC/24VDC 3A, 120VAC/24VDC 5A, 120VAC/24VDC (S)
Max. Switching Current	3A 5A (S)
Min. Load	1 mA, 1 VDC

## CONTACT DATA

Material	Ag, Au plated Ag	
Initial Contact Resistance	100 mΩ max. at 0.1A 6VDC	
Service Life	Mechanical	10 <sup>7</sup> ops.
	Electrical	10 <sup>5</sup> ops.

## UL/CSA RATING

Form	1 Form C (Z)
Resistive	1A, 120VAC/24VDC 3A, 120VAC/24VDC 5A, 120VAC/24VDC

## COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω) ±10%						Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)
		Power Consumption							
		Sensitivity B		Standard	Sensitivity H				
003	3	20	25	0.36W	45	0.2W	2.25	0.3	
005	5	56	70		120		3.75	0.5	
006	6	80	100		180		4.50	0.6	
009	9	180	220		440		6.75	0.9	
012	12	320	400		700		9.00	1.2	
024	24	1280	1600		2800		18.00	2.4	

## CHARACTERISTICS

Operate Time	5 ms. max.
Release Time	5 ms. max.
Insulation Resistance	100 MΩ, at 500 VDC, 50%RH
Dielectric Strength	1250 Vrms, 1 min. between coil and contacts 500 Vrms, 1 min. between open contacts; 750 Vrms, 1 min for S version
Surge Resistance	1500 V, between coil and contacts (FCC Part 68)
Shock Resistance	10g, 11ms. functional; 100g, destructive
Vibration Resistance	DA 1.5mm, 10 - 55Hz
Ambient Temperature	-25°C to 55°C
Weight	4g, approx.

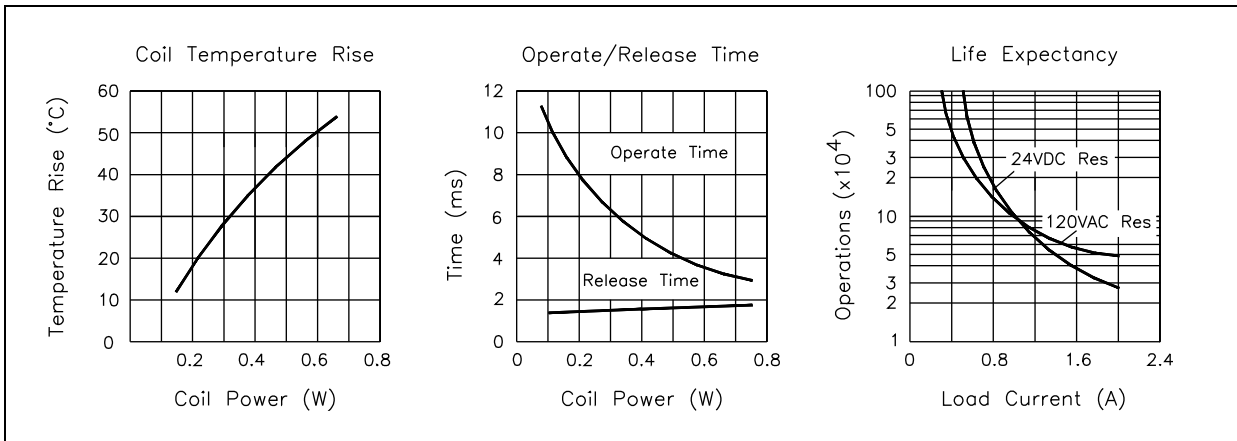
## ORDERING DESIGNATION

Example:	HG4100	B /	012 -	1	H	S
Model						
Footprint						
HG4100: Regular 6-pin						
HG4100B: Special 5-pin						
Coil Voltage Code						
Version						
1: Sealed; 2: Flux Free						
Coil Sensitivity						
Nil: Standard 0.36W; B: 0.45W; H: 0.2W						
Duty Version						
Nil: 3A; M: 1A; S: 5A*						

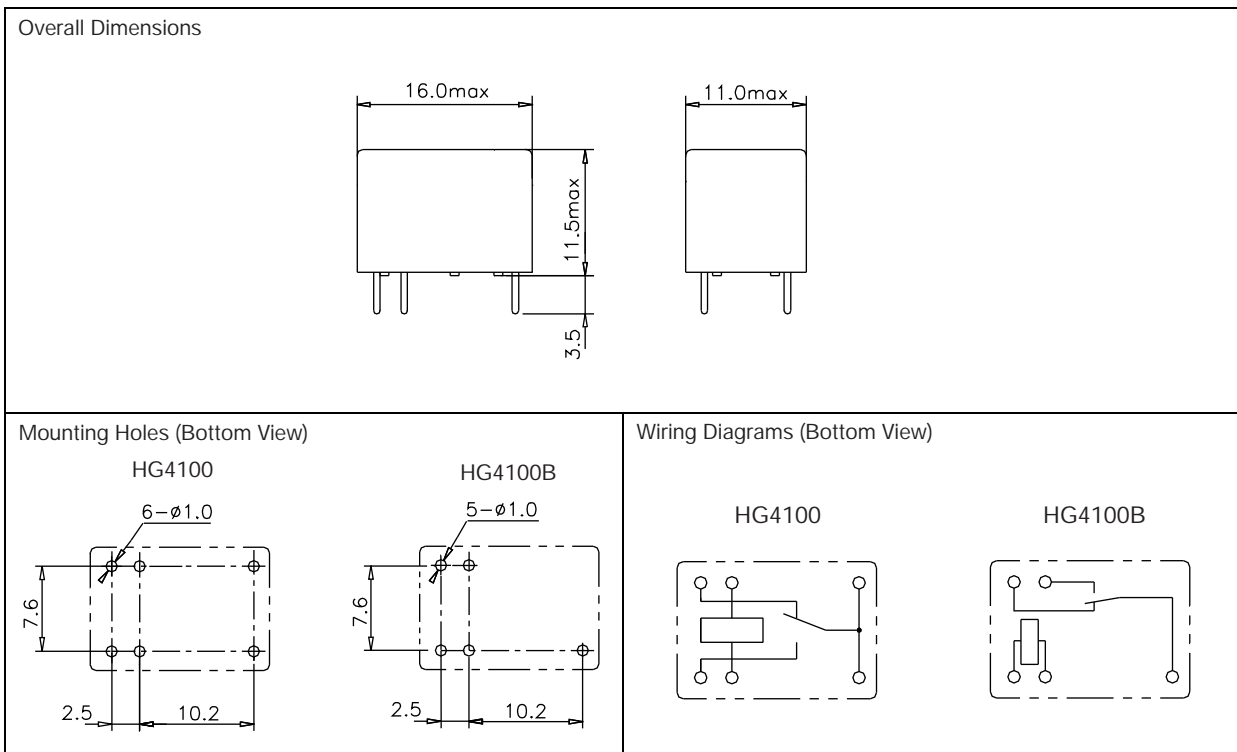
\*Note: Duty Version 5A (S) is only available for Coil Sensitivity 0.45W (B)

# HG4100 HG4100B

## REFERENCE CURVES



## OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



## NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Custom-made services available with operational quantity. Please let us know your special requirements.
3. Specifications subject to change without prior notice.

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