

FEATURES

- Miniaturized structure, light weight
- Improved contact capacity
- 1 Form U contact form for Independent 2 channel contact

TYPICAL AUTOMOTIVE APPLICATIONS

- EPS DC control
- ABS system
- Hazard lamp

CONTACT DATA

Form	1 Form U (SH)	
Max. Switching Current	Make	48A
	Break	20A
Material	AgSnOInO	
Initial Contact Resistance	100mV max. at 0.1A, 6VDC	
Max. Continuous Current	2x20A, 2 Min	
Max. Switching Voltage	16VDC	
Min. Load	0.5A, 12VDC	
Service Life	Mechanical	10 ⁷ ops.
	Electrical	2x10 ⁶ ops.(See Note 3)

COIL DATA

Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω)±10%	Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)
006	6	36	3.5	0.5
009	9	81	5.2	0.7
010	10	100	5.2	0.8
012	12	144	6.9	1.0
024	24	576	14.0	1.9

CHARACTERISTICS

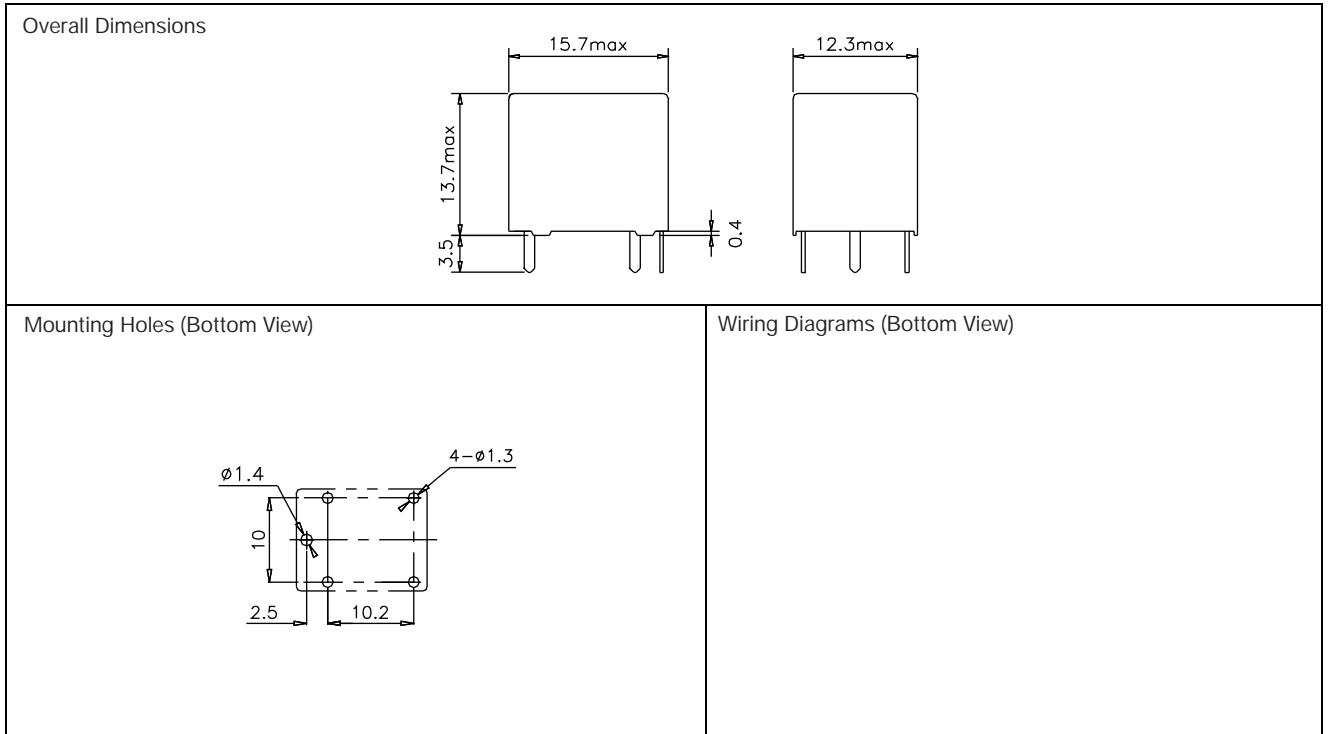
Operate Time	10ms. typical
Release Time	5ms. typical
Insulation Resistance	100MΩ , at 500VDC, 50%RH
Dielectric Strength	500Vrms, 1 Min.
Shock Resistance	10g, 11ms.
Vibration Resistance	DA 1.5mm, 10 -55Hz
Drop Resistance	1M height drop on concrete
Power Consumption	0.6W
Ambient Temperature	Operating: -40°C to 85°C; Storage: -40°C to 100°C
Weight	6g approx.

ORDERING DESIGNATION

Example:	HG4181B /	012 -	SH	1	C
Model					
Coil Voltage Code					
Contact Form					
SH: 1 Form U					
Version					
1: Sealed; 2: Dust Cover					
Contact Material					
Nil: AgNi10; A: AgNi0.15; C: AgCdO; S: AgSnOInO					

HG4181B

OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Maximum make current refers to inrush current of motor load.
3. Electrical life obtained at motor load of locked rotor at 20A, 14VDC with operating frequency of 6 ops/min.
4. Custom-made services available with operational quantity. Please let us know your special requirements.
5. Specifications subject to change without prior notice.

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