



FEATURES

- Low profile and light weight
- Highly reliable performance
- DIL configuration as IC and for use with DIP socket
- Single side stable and magnetic latching version available

TYPICAL APPLICATIONS

- Telecommunications
- Office machine
- Instruments
- Computer
- Industrial process control
- Remote control

CONTACT RATING

Form	2 Form C (2Z)
Rated Load	2A, 30VDC; 1A, 125VAC
Max. Switching Current	5A
Max. Switching Voltage	220VDC/250VAC
Max. Switching Power	60W/125VA

CONTACT DATA

Material	Ag alloy + Au clad	
Initial Contact Resistance	50 mΩ max. at 0.01A, 6VDC	
Service Life	Mechanical	10 ⁸ ops.
	Electrical	10 ⁵ ops at 2A, 30VDC; 5 x 10 ⁵ ops at 1A, 30VDC

COIL DATA SINGLE SIDE STABLE

Designation	Nominal Voltage (VDC)	Resistance (Ω) ±10%		Must Operate Voltage max. (VDC)	Allowable Operate Voltage (VDC)	Must Release Voltage min. (VDC)
		Power Consumption				
005-1AL	5	167	0.15W	4.0	11.5	0.5
006-1AL	6	240		4.8	13.8	0.6
009-1AL	9	540		7.2	20.8	0.9
012-1AL	12	960		9.6	27.7	1.2
015-1AL	15	1500		12.0	34.6	1.5
024-1AL	24	3840	0.2W	19.2	55.4	2.4
005-1AH	5	125		3.5	10.0	0.5
006-1AH	6	180		4.2	12.0	0.6
009-1AH	9	405		6.3	18.0	0.9
012-1AH	12	720		8.4	24.0	1.2
015-1AH	15	1125		10.5	30.0	1.5
024-1AH	24	2880		16.8	48.0	2.4
048-1AH	48	11520		36.0	96.0	4.8

SINGLE COIL LATCHING

Designation	Nominal Voltage (VDC)	Resistance (Ω) ±10%		Set and Reset Voltage max. (VDC)	Allowable Voltage (VDC)
		Power Consumption			
005-1BJ	5	330	0.075W	4.00	16
006-1BJ	6	480		4.80	19
009-1BJ	9	1080		7.20	29
012-1BJ	12	1920		9.60	39
015-1BJ	15	3000		12.00	43
024-1BJ	24	7680		19.00	78
005-1BM	5	250	0.1W	3.75	14
006-1BM	6	360		4.50	17
009-1BM	9	810		6.75	25
012-1BM	12	1440		9.00	34
015-1BM	15	2220		11.25	42
024-1BM	24	4000		18.00	56

DUAL COIL LATCHING

Designation	Nominal Voltage (VDC)	Resistance (Ω) ±10%		Set and Reset Voltage max. (VDC)	Allowable Voltage (VDC)
		Power Consumption			
005-1CL	5	167	0.15W	4.00	11.5
006-1CL	6	240		4.80	13.8
009-1CL	9	540		7.20	20.8
012-1CL	12	960		9.60	27.7
015-1CL	15	1500		12.00	34.6
024-1CL	24	3840		19.20	55.4
005-1CH	5	125	0.2W	3.75	10.0
006-1CH	6	180		4.50	12.0
009-1CH	9	405		6.75	18.0
012-1CH	12	720		9.00	24.0
015-1CH	15	1125		11.25	30.0
024-1CH	24	2040		18.00	48.0

CHARACTERISTICS

Operate Time	4 ms.
Release Time	3 ms.
Insulation Resistance	1000 MΩ at 500VDC
Dielectric Strength	1500 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
Surge Strength	1500 V
Shock Resistance	5 g, 11ms. functional; 10 g, 11ms. destructive
Vibration Resistance	2 g
Power Consumption	Standard 0.15 - 0.2W, Sensitive 0.075 - 0.1W
Ambient Temperature	-40 - 85 C operating
Weight	8 g, approx.

ORDERING DESIGNATION

Example:	HG4516 /	012 -	1	A	H
Model					
Coil Voltage Code					
Version					
1: Sealed					
A: Single Side Stable					
B: Single Coil Latching; C: Dual Coil Latching					
Coil Sensitivity					
L: 0.15W; H: 0.2W					
J: Sensitive 0.075W; M: Sensitive 0.1W*					

* Sensitive versions J and M are for single coil latching version only

OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)

Overall Dimensions Single Side Stable Single Coil Latching Dual Coil Latching	
Mounting Holes (Bottom View) Single Side Stable Single Coil Latching Dual Coil Latching	Wiring Diagrams (Bottom View) Single Side Stable Single Coil Latching Dual Coil Latching

NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 20°C.
2. For single coil latching version the wiring diagram show reset position. Energize terminal 1 and 16 to set and reverse energize the terminal 1 and 16 to reset.
3. For dual coil latching version the wiring diagram show reset position. Energize terminal 1 and 16 to set and energize the terminal 2 and 15 to reset.
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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