

RH2L Series — Magnetic Latching Relays

Key features of the RH2L series include:

- Compact miniature size saves board space
- Power-saving operation by pulse inputs eliminates the need for continuous control voltage
- · Coils rated for continuous duty

Maximum Continuous

Frequency Response

Weight

Applied Voltage (AC/DC)

- Built-in mechanical indicator to show set/reset condition
- Available with blade and PC mount terminals
- DIN rail, surface, panel, and PCB type sockets available for a wide range of mounting applications
- Excellent self-holding performance (magnetic latching)







Contact Material	Sliver cadmium oxide
Contact Resistance	50m Ω or less (initial value)
Vinimum Applicable Load	5V DC, 100mA
Onerating Time	30ms (AC): 20 ms (DC)

Cilvar andmium avida

110% of rated voltage

Minimum Set and Reset Voltage at 20°C 80% of rated voltage

Set Time	30ms or less (AC); 20ms or less (DC)
Reset Time	30ms or less (AC); 20ms or less (DC)

Reset coll: approximately 0.5vA;		
DC: approximately 0.9W	Power Consumption	DC: approximately 2W

Insulation Resistance	100MΩ minimum		
	Between live and dead parts: 2,000V AC, 1 minute Between contact circuit and opposite		

Dielectric Strength	coil: 2,000V AC, 1 minute Between contact circuits: 1,500V AC, 1 minute Between contacts of same pole: 1,000V AC, 1 minute
	1,000 1 70, 1 1111111110

Vibration Resistance	60N (approximately 6G) Maximum frequency 55Hz			
Shock Resistance	100N or more (approximately 10G)			

50g

Life Expectancy	Electrical: over 200,000 operations Mechanical: over 10,000,000 operations			
Operating Temperature	−30 to +70°C			

1,800 operations/hour

Ordering Information

Order standard voltages for fastest delivery. Allow extra delivery time for non-standard voltages.

Basic Part No. Coil Voltage: RH2LB-U AC120V

IDEC Relays

Part Numbers

Part Numbers: RH2L Series

Termination	Contact Configuration	Part No.
B: Blade	DPDT	RH2LB-U
V2: PCB - 0.079" (2mm)	DPDT	RH2LV2-U

Ratings

Coil Ratings

	Set Coil				Reset Coil			
Rated Voltage		Rated Current ±15% at 20°C 60Hz 50Hz		Coil Resistance ±10% at 20°C	Rated Curren	t ±15% at 20°C	Cail Desistance (100/ at 200C	
				Guil nesistalice ±10% at 20 G	60Hz 50Hz		Coil Resistance ±10% at 20°C	
	6V	220mA	227mA	8.8Ω	68mA	68.7mA	6.9Ω	
AC	12V	100mA	103mA	41.6Ω	34mA	34.2mA	30.2Ω	
AC	24V	50mA	51.2mA	182Ω	17.1mA	17.1mA	105Ω	
	120V	10mA 10.3mA		4,670Ω	4.2mA	4.2mA	2,680Ω	
	6V	333mA 18Ω 150mA		40Ω				
DC	12V	167	7mA	72Ω 75mA		160Ω		
DC	24V	83mA		288Ω	37.5mA		640Ω	
	48V	42mA		1,150Ω	18.8mA		2,560Ω	

Contact Ratings

	Resis	Resistive Inductive Mo		ive Inductive		Load
Voltage	UL	CSA	UL	CSA	UL	CSA
30V DC	10A	10A	_	7.5A	_	_
120V AC	10A	10A	7.5A	7.5A	1/6HP	1/6HP
240V AC	7.5A	7.5A	6.5A	5A	1/3HP	1/3HP

Applicable Sockets

Part Numbers: Sockets

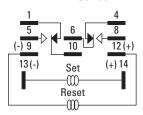
Relay	Standard DIN Rail Mount	Finger-Safe DIN Rail Mount	Panel Mount	PC Mount	Springs (optional)
RH2LB	SH3B-05	SH3B-05C	SH3B-51	SH3B-62	SFA-101 SY4S-51F1



See Section F for details on sockets. All DIN rail mount sockets shown above can be mounted using DIN rail BNDN1000.

Internal Circuit

RH2L Series



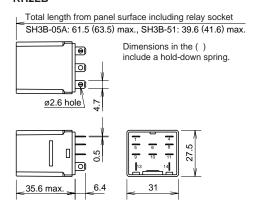
Bottom View

Shown in reset (unlatched) position.

Dimensions

PCB Terminal RH2LV2 10-\(\phi 2.4\) holes 10 \(\phi 2.4\) holes 1

Plug-in RH2LB



All dimensions in mm.