Relays **IDEC**

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

Contact Material

- 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)







Relays 🛃

Specifications

Contact Resistance $50m\Omega$ or less (initial value) 5V DC, 100mA **Minimum Applicable Load Operating Time** 30ms (AC); 20 ms (DC) **Maximum Continuous** 110% of rated voltage Applied Voltage (AC/DC) **Minimum Set and Reset** 80% of rated voltage Voltage at 20°C Set Time 30ms or less (AC); 20ms or less (DC) **Reset Time** 30ms or less (AC); 20ms or less (DC) Set coil: AC: approximately 1.2V; DC: approximately 2W **Power Consumption** Reset coil: approximately 0.5VA; DC: approximately 0.9W **Insulation Resistance** $100M\Omega$ minimum Between live and dead parts: 2,000V AC, 1 minute Between contact circuit and opposite coil: 2,000V AC, 1 minute **Dielectric Strength** Between contact circuits: 1,500V AC, 1 minute Between contacts of same pole: 1,000V AC, 1 minute **Frequency Response** 1,800 operations/hour 60N (approximately 6G) **Vibration Resistance** Maximum frequency 55Hz Shock Resistance 100N or more (approximately 10G) Electrical: over 200,000 operations Life Expectancy Mechanical: over 10,000,000 operations **Operating Temperature** -30 to +70°C Weight 50g

Silver cadmium oxide

Ordering Information

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

Basic Part No. RH2LB-U Coil Voltage: 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

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

Contact Ratings

	Resistive		Inductive		Motor 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

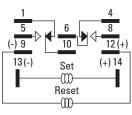
Relay	Standard DIN Rail Mount	Finger-Safe DIN Rail Mount	Panel Mount	PC Mount	Springs (optional)
RH2LB	SH3B-05	SH3B-05C	SH3B-51	SH3B-62	SFA-101 SY4S-51F1



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

Internal Circuit

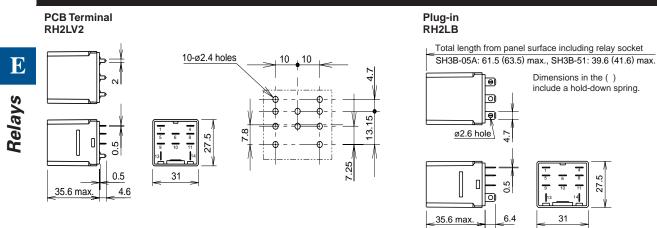
RH2L Series



Bottom View

Shown in reset (unlatched) position.

Dimensions



All dimensions in mm.