

MINIATURE POWER LATCH RELAY

HC-10A



▶ Contact data 触点参数

Contact form	1A,2A, 1A1B
Contact resistance	Max,30m Ω
Rated load	
Resistive load (cos Φ=1)	1A:10A at 250VAC 10A at 30VDC 1A1B/2A:8A at 250VAC 8A at 30VDC 1A:5A at 250VAC 5A at 30VDC
inductive load (cos Φ=0.4;L/R=7ms)	1A1B/2A:3.5A at 250VAC 3.5A at 30VDC
Max.switching power Resisive load (cos Φ=1) Inductive load (cos Φ=0.4;L/R=7ms)	1A:2500VAC,300W 1A1B/2A:2000VA,240W 1A:1250VA,220W 1A1B/2A:875VA,170W
Max.switching voltage	380VAC 125VDC (the case of latching 250VAC,125VDC)
Max.switching current	10A
Contact material	AgNi/AgSnO
Weight	5.6g

▶ Characteristics 性能参数

Insulation resistance	Min.1000MΩ(at 500VDC)
Dielectric strength -Between coil and contacts -Between open contacts -Between contacts sets	2000VAC,(50/60Hz for 1 min) 1000VAC,(50/60Hz for 1 min) 2000VAC,(50/60Hz for 1 min)
Operate time (set time)	Max. 10ms
Release time (reset time)	Max. 10ms
Min.set/reset signal width, Latching type	20ms(at 23°C)
Vibrator resistance	10-55HZ, 1.5mm DA
Shock resistance	Malfunction:100m/s ² Destruction:1,000m/s ²
Ambient humidity	(95±3)% at 40°C
Ambient temperature	-40°C to +70°C
Life expectancy -Electrical (at 1,800 operations/hr) -Mechanical (at 18,000 operations/hr)	1×10 ⁵ min.operations 1×10 ⁷ min.operations

◆ Features

- Contact rating:8A/250VAC
- Contact form:1A,2A,1A1B
- Latching types available
- Dimension:20*15*10mm(L*W*H)
- UL approval
- ROHS compliance

◆ 产品特点

- 触点负载 : 8A/250VAC
- 触点形式 : 1A,2A,1A1B
- 可提供磁保持型
- 产品尺寸 : 20*15*10mm(长*宽*高)
- UL认证
- 产品符合ROHS要求

◆ Applications

- Lighting control systems
- Movement sensors
(e.g. passive infrared sensors)
- Home automation applications
(bus systems remote switching)
- Electronic switches for fixed installations
- Relay protection of electric power system

◆ 应用领域

- 照明控制系统
- 运动传感器
(例如无源红外传感器)
- 家庭自动化应用
(总线系统 遥控开关)
- 固定安装电子开关
- 电力继电保护

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► Coil data 线圈参数

1.Single Side Stable (1 coil) 单线圈单稳态继电器

Normal voltage(VDC)	Pick-up voltage VDC(Max.)	Drop-out voltage VDC(Min.)	Normal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)
3	2.25	0.3	67	45	200
5	3.75	0.5	40	125	200
6	4.5	0.6	33.3	180	200
12	9	1.2	16.7	720	200
15	11.25	1.5	13.3	1125	200
24	18	2.4	8.3	2880	200

2.Latching (1 coil) 单线圈双稳态磁保持继电器

Normal voltage(VDC)	Set & reset voltage VDC(Max.)	Normal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)
3	2.25	67	45	200
5	3.75	40	125	200
6	4.5	33.3	180	200
12	9	16.7	720	200
15	11.25	13.3	1125	200
24	18	8.3	2880	200

3.Latching (2 coil) 双线圈双稳态磁保持继电器

Normal voltage(VDC)	Set & reset voltage VDC(Max.)	Normal current (mA±10%)	Coil resistance (Ω±10%)	Power consumption (mW)
3	2.25	93.5	32.1	280
5	3.75	56	89.3	280
6	4.5	46.7	129	280
12	9	23.3	514	280
15	11.25	18.7	800	280
24	18	11.7	2065	280

► Ordering information 订货标记

HC-10A L2 24 1a1b N R

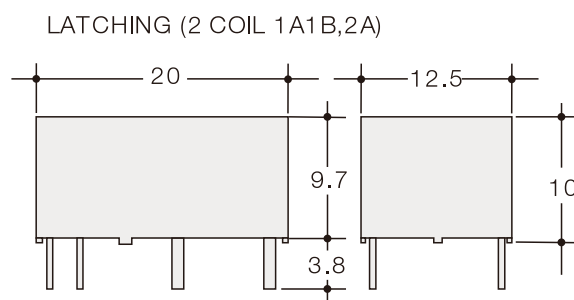
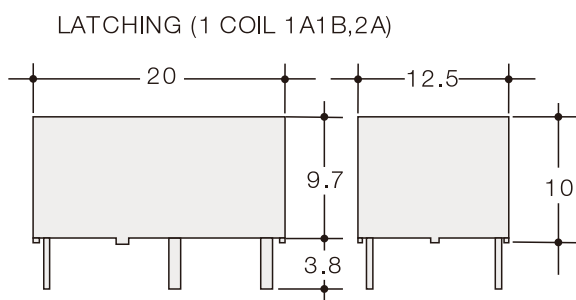
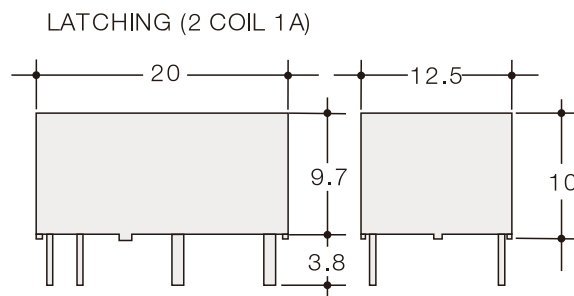
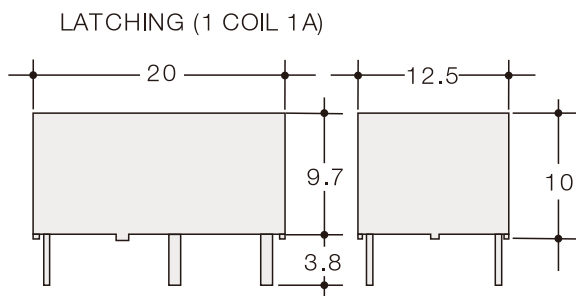
Model NO .	Sort	Coil Voltage	Contact Form	Contact Material	Polarity
HC-10A	Nil:Single Side Stable L1: 1 Coil Latching L2: 2 Coil Latching	3VDC-24VDC	1a:1A 1a1b:1A1B 2a:2A	Nil:AgSno N:AgNi	Nil:Standard Polarity R: Reverse Polarity

MINIATURE POWER LATCH RELAY

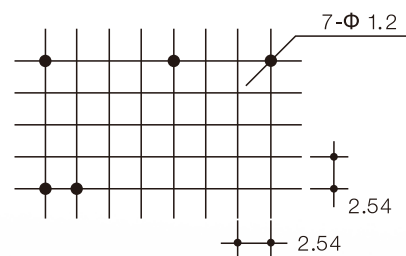
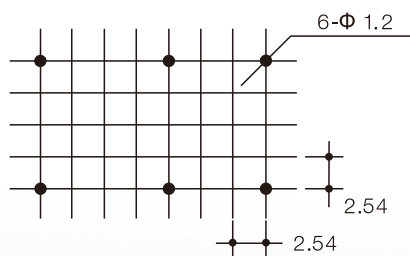
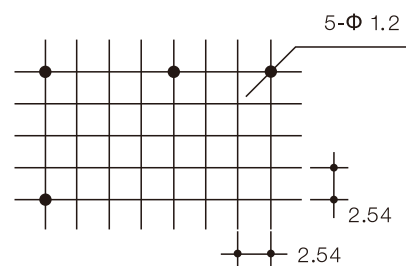
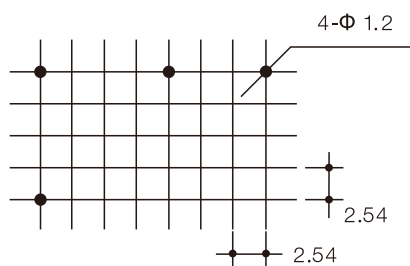
HC-10A



► Dimensions (unit:mm) 外型尺寸、接线、安装孔位图 (单位:mm)



► PCB layout 线路板布置图

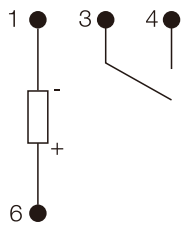


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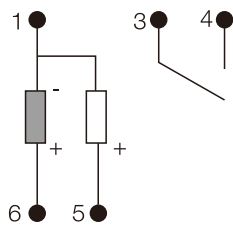
HC-10A



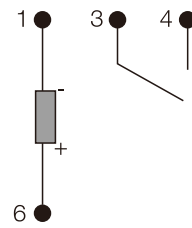
▶ Schematic 底视电路图



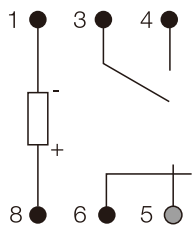
1 coil:1A



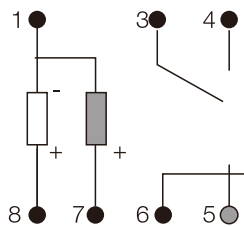
2 coil latch:1A



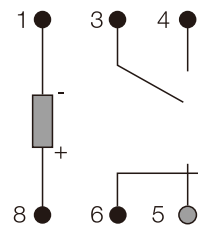
1 coil latch:1A



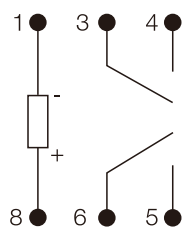
1 coil:1A1B



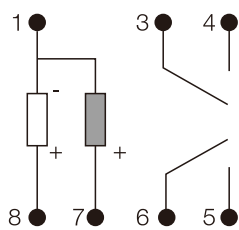
2 coil latch:1A1B



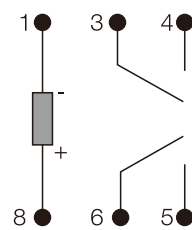
1 coil latch:1A1B



1 coil:2A



2 coil latch:2A



1 coil latch:2A