

## Features

- High mounting density on P.C board by small size and light weight.
- DIL pitch terminal, 2Pole relay suitable for signal circuit.
- UL recognized.
- High sensitivity-Nominal power 75mW~200mW.
- Latching type available.



## Order Code

BD2 - 12 - S - L2-D  
a b c d e

a: Relay Model

b: Nominal Coil Voltage

c: Coil Power: S=Sensitivity Type ; M=Standard Type

d: Operating Function: Ni=Standard ; L1=1 Coil Latching ; L2=2 Coil Latching

e: Contact material: Nil=AgPd60 ; D=Ag - AuAg8

## Coil Data-Standard Type (at 20°C)

Nominal Voltage (VDC)	Coil Resistance $\pm 10\%$ (ohm)		Max. Operate Voltage(VDC)		Min. Release Voltage (VDC)	Max. Allowable Voltage(VDC)	
	S(150mW)	M(200mW)	S(150mW)	M(200mW)		S(150mW)	M(200mW)
3	60	45	2.4	2.3	0.3	7	6
5	167	125	4	3.8	0.5	11.5	10
6	240	180	4.8	4.5	0.6	13.8	12
9	540	405	7.2	6.8	0.9	20.8	18
12	960	720	9.6	9	1.2	27.7	24
15	1500	1125	12	11.3	1.5	34.6	30
24	3840	2880	19.2	18	2.4	55.4	48
48	----	11520	----	36	4.8	----	96

## Coil Data-1Coil Latching Type (at 20°C)

Nominal Voltage (VDC)	Coil Resistance $\pm 10\%$ (ohm)		Max.Set/Reset Voltage(VDC)		Max. Allowable Voltage(VDC)	
	S(75mW)	M(100mW)	S(75mW)	M(100mW)	S(75mW)	M(100mW)
3	----	90	----	2.25	----	8.4
5	330	250	4	3.75	16	14
6	480	360	4.8	4.5	19	17
9	1080	810	7.2	6.75	29	25
12	1920	1440	9.6	9	39	34
15	3000	2220	12	11.25	43	42
24	7680	4000	19.2	18	78	56

## Coil Data-2Coil Latching Type (at 20°C)

Nominal Voltage (VDC)	Coil Resistance $\pm 10\%$ (ohm)		Max.Set/Reset Voltage(VDC)		Max. Allowable Voltage(VDC)	
	S(150mW)	M(200mW)	S(150mW)	M(200mW)	S(150mW)	M(200mW)
3	----	45	----	2.25	----	6
5	167	125	4	3.75	11.5	10
6	240	180	4.8	4.5	13.8	12
9	540	405	7.2	6.75	20.8	18
12	960	720	9.6	9	27.7	24
15	1500	1125	12	11.25	34.6	30
24	3840	2040	19.2	18	55.4	48

**Contact Rating**

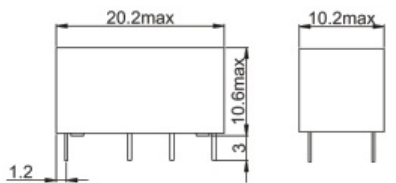
Contact Form	2 Form C
Contact Rating	1A 125VAC / 2A 30VDC
Max. Switching Power	125VA/60W
Max. Switching Voltage	250VAC / 220VDC
Max. Switching Current	2A
Max. Carry Current	5A

**Specification**

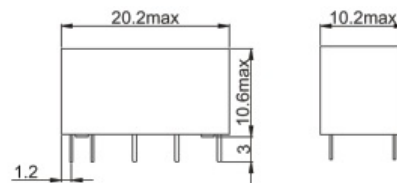
Contact Material	Silver Alloy	
Contact Resistance	Max. 100m ohm (6VDC 1A)	
Operate Time (Set Time)	4ms (3ms)	
Release Time (Reset Time)	3ms (3ms)	
Bounce Time	1.5ms	
Insulation Resistance	1000M ohm Min. (500VDC)	
Dielectric Strength	Between Open Contacts 1000VAC(for 1 min)	
	Between Coil to Contacts 1500VAC(for 1 min)1 coil	
	Between Coil to Contacts 1000VAC(for 1 min)2 coil	
Vibration	196 m/s <sup>2</sup> (20g) 10-55Hz	
Shock Resistance	Functional	490m/s <sup>2</sup> (50g)
	Endurance	980m/s <sup>2</sup> (50g)
Life Expecting of Mechanical	1 x 10 <sup>8</sup> ops Min (1800 ops/hr)	
Life Expecting of Electrical	1 x 10 <sup>5</sup> ops Min (2A 30VDC)	
Ambient Temperature	-40°C ~ +85°C	
Weight	Approx. 4.5g	

**Dimensions (Unit: mm)**

Standard type & 1 Coil Latching type

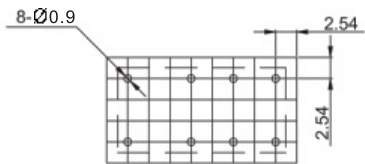


2. Coil Latching type

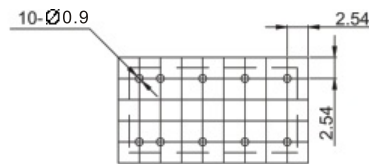


**Drilling Plan (Unit: mm) (Bottom View)**

Standard type & 1 Coil Latching type

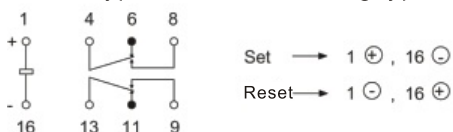


2. Coil Latching type



**Wiring Diagrams (Bottom View)**

Standard type & 1 Coil Latching type



2. Coil Latching type

