

# HRS2 Series

## PCB Relays



### Features:

- Low profile.
- Fully sealed.
- Standard and sensitive coil versions.
- DPCO contacts.

### Specifications:

#### Coil Data:

Nominal Voltage : 3V dc to 24V dc.  
Nominal Power Consumption : 150 to 360mW.

#### Contact Data:

Contact Arrangement : 2 Form C.  
Contact Material : AuAg.  
Contact Rating : 1A at 24V dc/120V ac.  
Maximum Switching Voltage : 60V dc/120V ac.  
Maximum Switching Current : 2A.  
Maximum Switching Power : 60VA, 24W.  
Contact Resistance (Initial) : 100m $\Omega$  at 6Vdc 1A.  
Life Expectancy Electrical : 100,000 operations at nominal load.  
Mechanical : 10,000,000 operations.

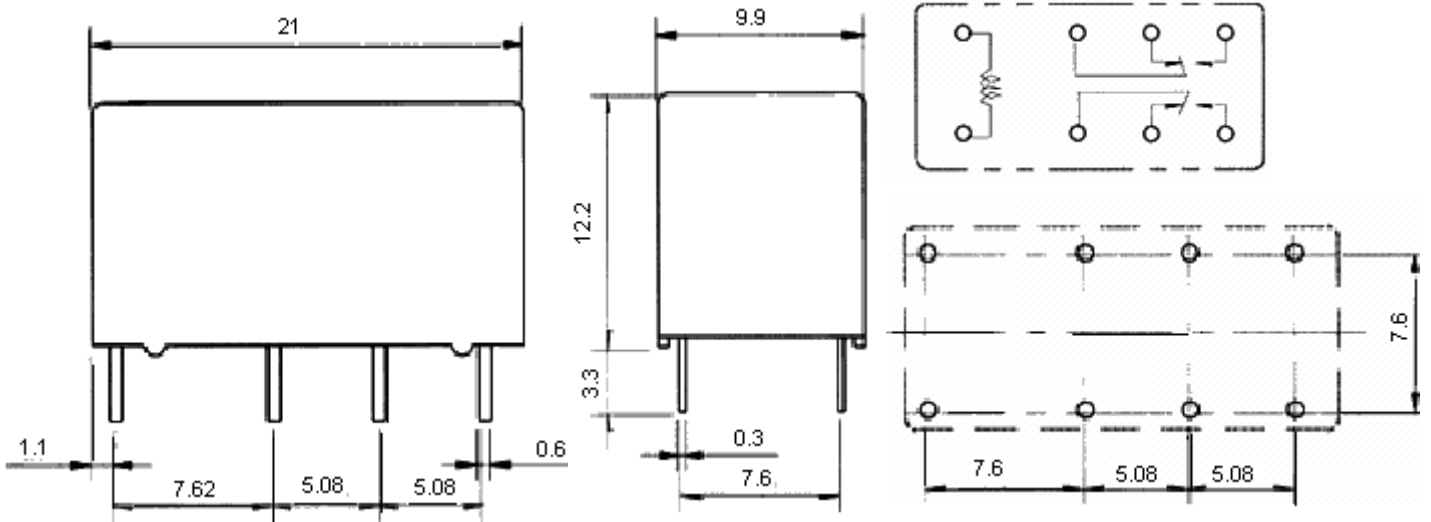
#### General Data:

Minimum Insulation Resistance : 100M $\Omega$ , at 500V dc.  
Dielectric Strength : 1000V ac, 1 minute between open contact  
1500V ac, 1 minute between contact and coil.  
Surge Strength : 2000V ac (20 $\Omega$ ).  
Maximum Operate Time : 6ms.  
Maximum Release Time : 4ms.  
Temperature Range : -30°C to +60°C.  
Shock Resistance : 15G.  
Vibration Resistance : 10 - 55Hz, Amplitude 1.5mm.



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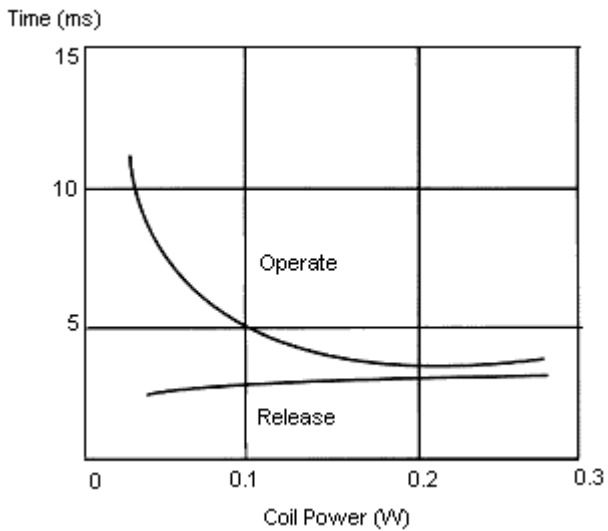
## PCB Relays



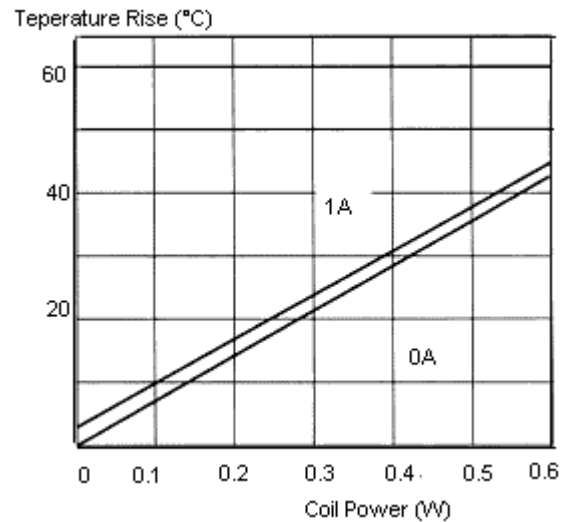
Dimensions : Millimetres

### HRS2H Characteristics Data

#### Timing



#### Coil Temperature Rise



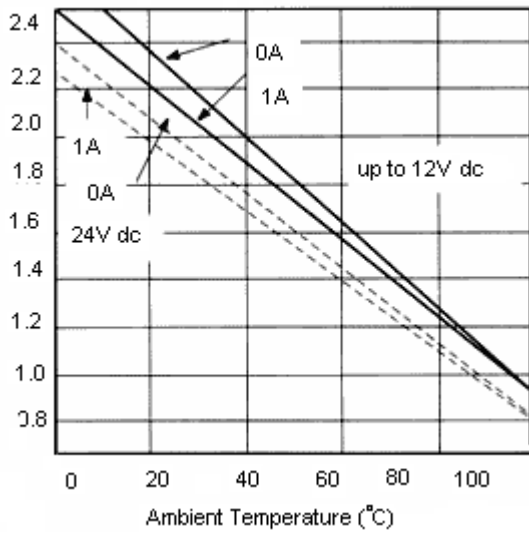
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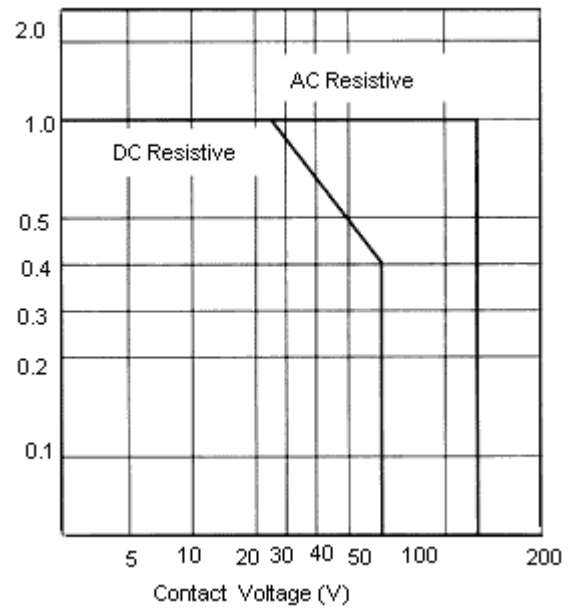
### Operating Range

Nominal Voltage Multiplying Factor



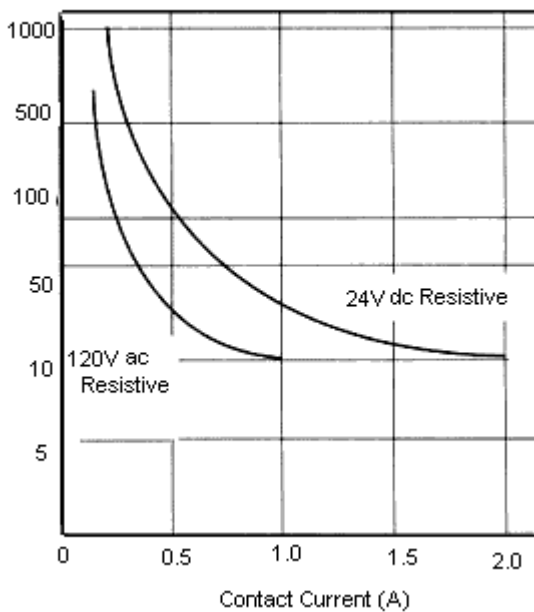
### Maximum Switching Power

Contact Current (A)



### Life Curve

Operation (x10,000)



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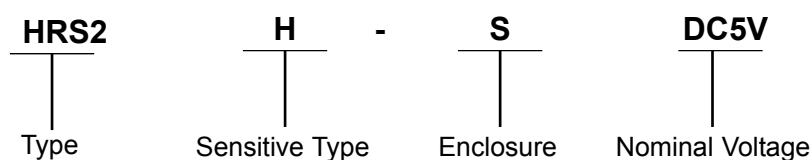
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### Specification Table

Type	Coil Nominal (V dc)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Operating Voltage (V dc)	Release Voltage (V dc)	Coil Nominal (mW)	Part Number
High Sensitivity	5	120	3.75	0.5	200	HRS2H-S DC5V
	9	400	6.75	0.9		HRS2H-S DC9V
	12	700	9.00	1.2		HRS2H-S DC12V
	24	2800	18.00	2.4		HRS2H-S DC24V
Standard	5	70	3.75	0.5	360	HRS2B-S DC5V
	12	400	9.00	1.2		HRS2B-S DC12V
	24	1600	18.00	2.4		HRS2B-S DC24V

### Part Number Explanation

**Enclosure**

: S = Washable.

**Sensitive Type**

: H - High Sensitive Type, B - Standard Type.

**Nominal Voltage**

: DC5V = 5V, DC9V = 9V, DC12V = 12V, DC24V = 24V.

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### Notes:

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