# Signal Relays

## Features:

- Microminiature relay.
  Dimension : 20.3 × 9.9 × 11.4 (mm).
- High sensitivity.
- 2 form contacts : 2 form C.

## Part Number Explanation:

**HRS2H** - **S** - **DC5V** - ☐

| HRS2H | S | DC5V | ☐ |
|---|---|---|---|
| Model | Enclosure | Coil Voltage | Coil Sensitivety |

**Enclosure** **:** S - Plastic Sealed Type.
**Coil Voltage** **:** DC5V, DC9V, DC12V and DC24V.
**Coil Sensitivety** **:** Blank - 450mW.

**Remarks :** Contact rating : 1A, 2A.

## Specifications

| **Contact Data** | | |
|---|---|---|
| Contact Material | | AuAg overlay, Ag Alloy |
| Contact Rating | | 1A 120V ac / 24V dc |
| | | 2A 120V ac / 24V dc |
| Contact Resistance | | Maximum 50mΩ (6V dc 0.1A) |
| Load | Maximum Switching Voltage | 125V ac / 30V dc |
| | Maximum Switching Current | 2A |
| | Maximum Switching Power | 250VA,60W |
| | Minimum Switching Load | 5V dc,10mA |
| Life | Electrical | 100,000 Operations |
| | Mechanical | 15,000,000 Operations |

## Specifications

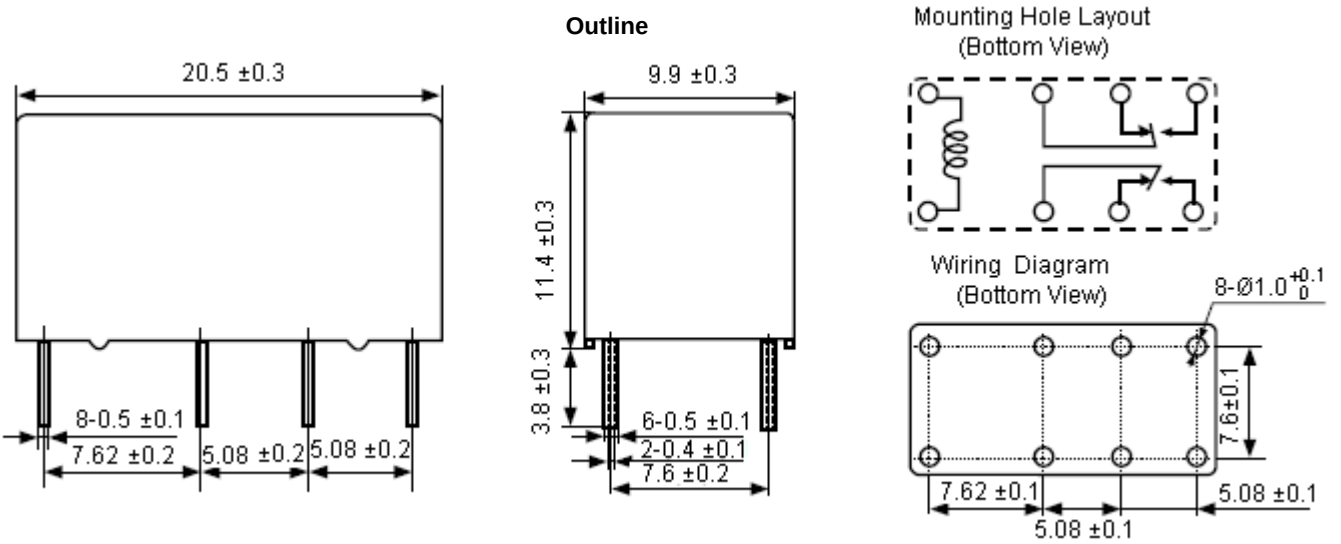
| | | |
|---|---|---|
| **Coil Data** | | |
| Nominal Coil Power | | 150mW, 200mW, 360mW, 450mW |
| **General Data** | | |
| Insulation Resistance | | Minimum 1,000MΩ 500V dc |
| Dielectric Strength | Between Open Contacts | 500V ac,1 Min |
| | Between Coil and Contacts | 1,000V ac,1 Min |
| Operate Time | | Maximum 7ms |
| Release Time | | Maximum 3ms |
| Operating Temperature | | -25 to +70°C |
| Humidity | | 35 to 95% RH, +40°C |
| Surge Strength | | 1,500V ac,10 × 160 µs |
| Shock Resistance | Endurance | 1,000m/s$^2$ |
| | Misoperation | 100m/s$^2$ |
| Vibration Resistance | Endurance | 10 to 55Hz,1.5mm Double Amplitude |
| | Misoperation | |

## Coil Data

**Ambient Temperature: 23°C**

| Nominal Voltage V dc | Coil Resistance Ω ±10% | Operate Voltage ≤ V dc | Release Voltage ≥ V dc | Coil Power mW | Part Number |
|---|---|---|---|---|---|
| 5 | 55.6 | 3.75 | 0.5 | 450 | HRS2H-S-DC5V |
| 9 | 180 | 6.75 | 0.9 | | HRS2H-S-DC9V |
| 12 | 320 | 9 | 1.2 | | HRS2H-S-DC12V |
| 24 | 1280 | 18 | 2.4 | | HRS2H-S-DC24V |

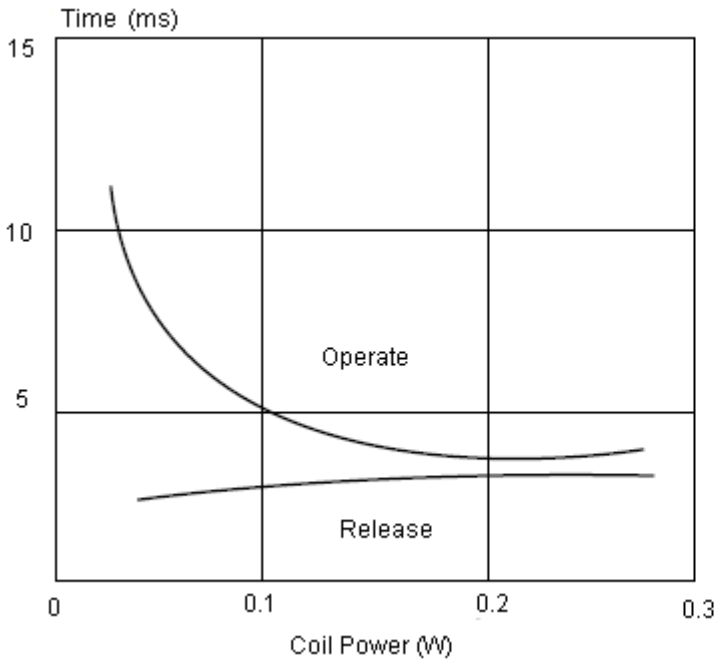
## Out Line, Wiring Diagram, Mounting Hole Layout (Unit : mm)



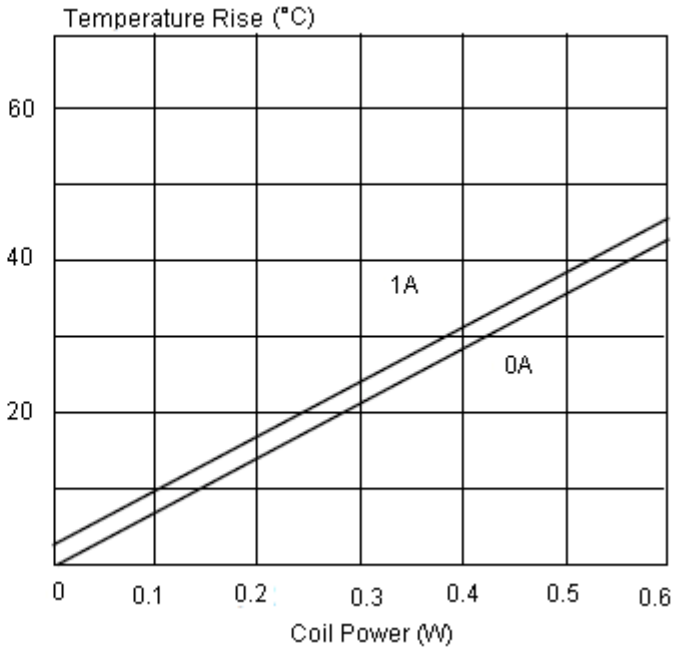

Dimensions : Millimetres

## Characteristic Chart Data

**Timing**

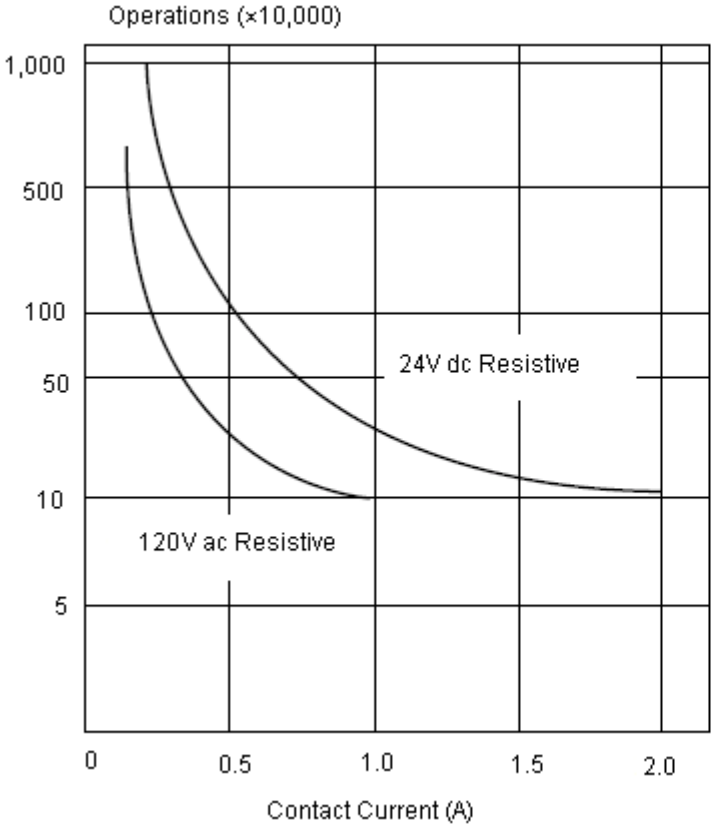



**Coil Temperature Rise**



## Characteristic Chart Data

### Life Curves




### Maximum Switching Power