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High Sensitivity CMOS Relays

Models Available

HSR-12VDC CMOS Relay 12Vdc
HSR-24VDC CMOS Relay 24Vdc

Product Features

- High sensitivity input circuit
- 2 pole changeover relay output
- Ideal for use with CMOS devices
- Available in 12Vdc or 24Vdc versions
- Plug-in sockets also available

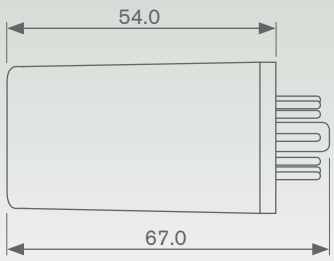
The Tempatron high sensitivity CMOS relays operate from a wide ranging 3.5Vdc to 50Vdc input and have 2 pole isolated changeover output relay contacts, making them ideal for use with CMOS devices.

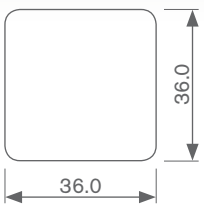
A Darlington pair in the input circuitry gives these relays very sensitive input switching, together with a wide ranging input voltage and very low current requirements.

These relays are available in 12Vdc and 24Vdc versions and are housed in a compact 36mm x 36mm square enclosure for surface/DIN rail mounting to a socket.

High sensitivity relays ideal for switching from CMOS devices

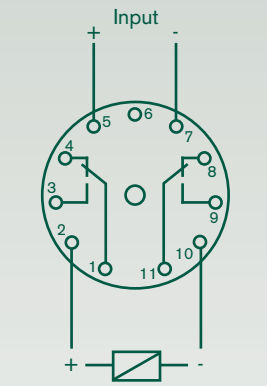
Dimensions





All dimensions in mm

Connections



Coil Supply 12Vdc or 24Vdc

View on pins

Ordering information

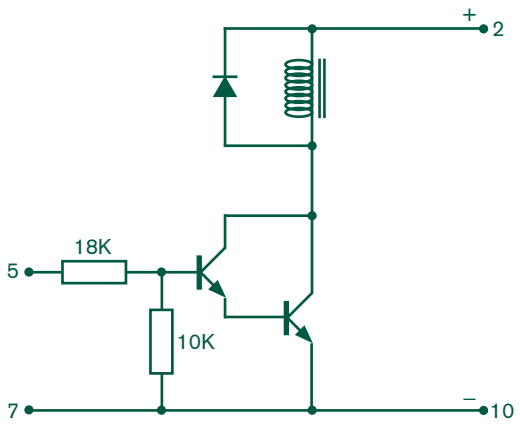
Model	Code	Description
	HSR	High Sensitivity CMOS Relay

Auxiliary Power	Code	Description
	12VDC	12Vdc
	24VDC	24Vdc

Plug-in Bases	Code	Description
	CDSR11	11 Pin Rear Screw Panel Socket
	AZ611	11 Pin DIN Rail/Panel Mount Socket
	S11P	11 Pin DIN Rail/Panel Mount Socket

Example	HSR-24VDC

Equivalent Circuit



Specification

Minimum Input Voltage:
- 3.5Vdc

Maximum Input Voltage:
- 50Vdc

Input Current:
- 125µA @ 3.5V
- 240µA @ 5V
- 800µA @ 15V
- 1.75mA @ 50V

Coil Voltage:
- 9-15Vdc (12Vdc version)
- 18-30Vdc (24Vdc version)

Maximum Coil Current:
- 75mA (12Vdc version)
- 37mA (24Vdc version)

Relay Output:
- 2 pole changeover contacts

Contact Rating:
- 10A at 240Vac/30Vdc (resistive)

Contact Material:
- AgNi90/10

Operating Temperature:
- 0°C to 50°C

Enclosure Code:
- Case IP40

Weight:
- 60g

Markings:
- CE marked (meets EN61010-1 low voltage and EN50081-1/50082-1 EMC directives)

Specification subject to change without notice.

Tempatron: Eltime House, Hall Road, Maldon, Essex, CM9 4NF UK.

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