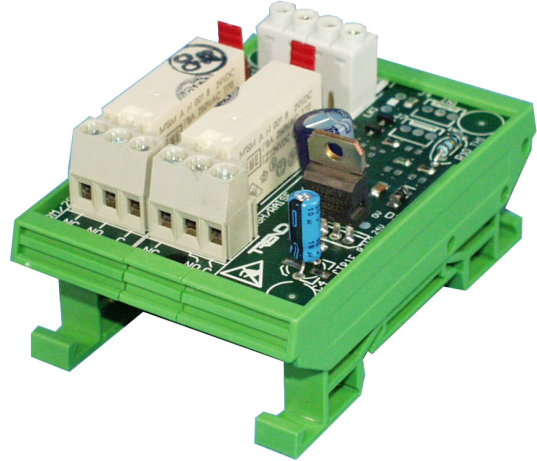


2SRM/24VAC Two Single Relays Module

2SRM/24VAC Two Single Relays Module



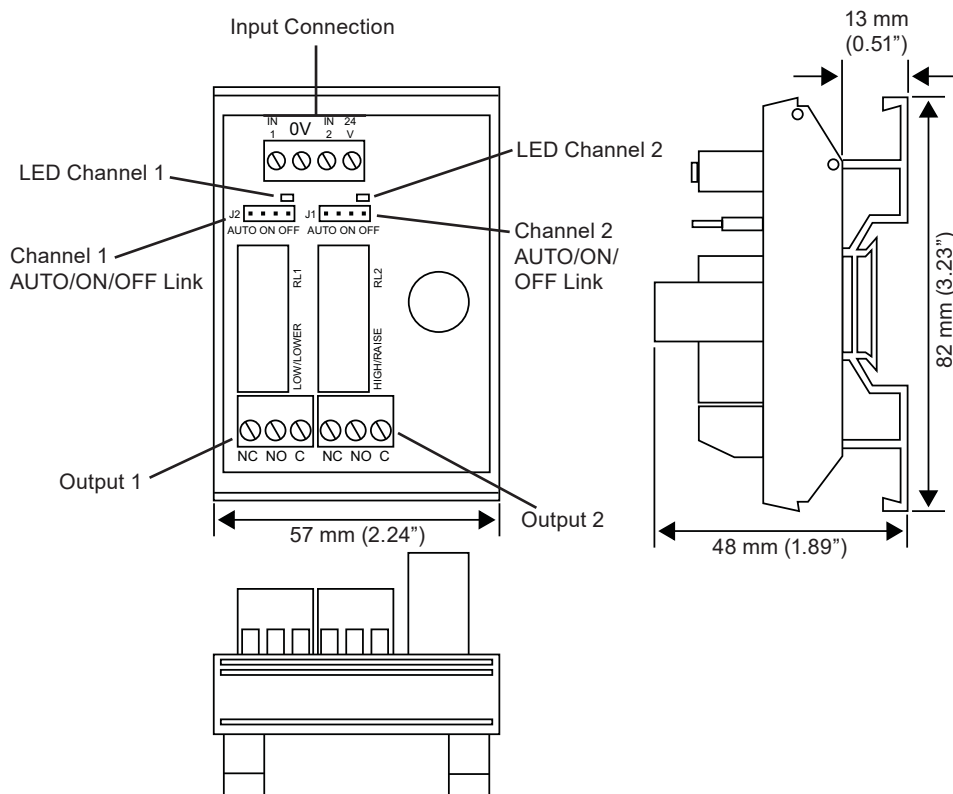
Description

The Two Single Relay Module (2SRM) contains 2 single relays and acts as an interface between an IQ controller and heating and ventilation equipment. It allows 2 single changeover relays to be independently driven by 2 controller output signals. Each relay allows plant of up to 5A (resistive) at 240 Vac to be switched via the relay contacts. There are manual override links for each relay to aid commissioning. Field wiring is facilitated by rising cage clamp type terminals.

Features

- 2 independent changeover relays.
- ON/OFF/AUTO manual override links.
- LED status indication.
- Standard DIN rail mounting.
- Rising cage clamp terminals.
- 24 Vac/dc supply.

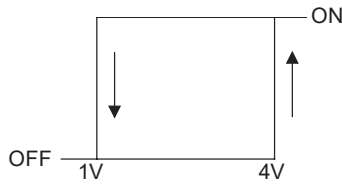
Physical



FUNCTIONALITY

The 2SRM contains 2 single relays. It allows 2 single changeover relays to be independently driven by 2 controller output signals. Each relay may be manually overridden using the AUTO/ON/OFF links.

Operation: Each relay switches at the levels shown below.



Note that the voltage levels shown are approximate values - exact switching points may vary slightly from unit to unit.

Mounting: The 2SRM is designed to be mounted on a standard DIN rail.

Power connection: The relay's power connection is made to a 24 Vdc (e.g. IQ's auxiliary supply) or 24 Vac supply (isolated or earthed to IQ earth) using the 0V and 24 V terminals.

AUTO/ON/OFF: For commissioning purposes each relay may be switched ON or OFF using its AUTO/ON/OFF link. The relay operation may be checked by monitoring its LED. Each AUTO/ON/OFF link can be replaced with a SPDT switch.

Note that the feeds switched from other relays on the same module or interlocks provided by other relays will not necessarily be operative when using manual overrides. It is the system designer's responsibility to ensure that adequate interlock protection is built into the design.

Connectors: 1 part screw terminals for 0.5 to 2.5 mm² cross section area (20 to 14 AWG) cable are used for inputs, outputs, and power connection. All terminals are rising cage clamp type. Each AUTO/ON/OFF link can be replaced with a 4 in line connector for connection to a SPDT switch.

INSTALLATION


The 2SRM must be mounted within a secondary/protective enclosure, conforming to EN61010-1, close to the IQ controller. The procedure involves:


- mount the 2SRM in position
- set IQ analogue output channel for voltage
- wire the 2SRM to the controller
- wire the 2SRM to the plant
- connect the 24 V supply
- check relay operation

The installation procedure is covered in the 2SRM/24VAC Installation Instructions (TG103210)

DISPOSAL

COSHH (Control of Substances Hazardous to Health - UK Government Regulations 2002) ASSESSMENT FOR DISPOSAL OF 2SRM (24 Vac/dc). No parts are affected.

RECYCLING.  All plastic and metal parts are recyclable. The printed circuit board may be sent to any PCB recovery contractor to recover some of the components for any metals such as gold and silver.



WEEE Directive:
 At the end of their useful life the packaging and product should be disposed of by a suitable recycling centre.
 Do not dispose of with normal household waste.
 Do not burn.

ORDER CODE

2SRM/24VAC

1 off 2SRM module for DIN rail mounting.

SPECIFICATIONS

Electrical

Supply voltage	:24 Vac or Vdc \pm 20%.
Supply current	
24 Vac	:73 mA (37 mA for single relay)
24 Vdc	:33 mA (17 mA for single relay)
Input signal	:0 to 10 Vdc (10 mA max per channel).
Relays	
Switching	:2 single pole changeover.
Contact rating	:5 A @ 240 Vac ($\cos\phi \geq 0.4$) 5 A @ 30 Vdc (resistive) 2 A @ 24 Vdc (inductive, $T \leq 30$ ms). NOTE: To meet safety requirements, relays being used must all be switching either low voltage or mains and not a mixture of voltages. If switching mains, they must all switch the same phase and polarity. Arc suppression circuit (RC) recommended for inductive loads, see TG200208.
Manual override	:linkable AUTO/ON/OFF.
LED	:Single LED for each relay. ON when energised.

Mechanical

Dimensions	:82 mm (3.23") x 57 mm (2.24") x 48 mm (1.88")
Connectors	:Single part with rising cage clamp type terminals for 0.5 to 2.5 mm ² cross section area (20 to 14 AWG) cable.
DIN rail	:for use with top hat profile (DIN 46277-3, EN50022, BS5584:1978).

Environmental

Safety	:EN61010-1:2001.
Ambient limits	
Storage	:-10 °C (14 °F) to +70 °C (158 °F)
Operating	:-10 °C (14 °F) to +50 °C (122 °F)
Humidity	:0 to 90 %RH non-condensing.
Altitude	:<2000m (6562 ft)

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