

1SRM One Single Relay Module

Description

The 1 SRM Module is intended for use with Direct Digital Controllers to convert an Analogue Output signal to a Relay Switching Output.

The 1 SRM Module is constructed on a Epoxy Glass Laminate and housed in an industry standard 80mm DIN Rail Mounting. Generous 2.5mm² terminals are provided for the field interconnections.

The 1 SRM Module is CE rated and is RoHS compliant.



Applications

Applications include the switching via Relay contacts of any Plant up to a 10Amp resistive load.

Converting low power Analogue or Digital Outputs to Relay operation.

To provide Local Manual Control of the Plant in case of controller failure.

Local Manual Control of the Plant will also enable pre-commissioning and testing.

To provide a Local LED indication of Output Status.

To provide isolation of the controller from the Harsh Plant Environment, protecting the Controller.

The input requires only 1mA @ 5 to 10V DC to switch which allows controllers with limited output capability to operate correctly.

Features

Provides a SPDT Relay Output channel (C/NO/NC)

Design for DIN rail mounting.

Auto/On/Off jumper for plant checkout and override.

Rising cage Terminals.

Universal AC or DC Supply.

Flame retardant Polyamide DIN mounting.

LED status indication.

A remote Auto/On/Off Switch is available.



1SRM Continued:

Specifications

Input Signal:	0 & 10V DC @ 1mA Max. 0 & 20mA or 4 & 20mA available on request.
Switching Voltage:	Minimum 3,5V DC for reliable switching.
Output Contacts:	10 Amp @ 230V AC Resistive. S.P.D.T.
Power Supply:	24V DC @ 40mA or 24V AC @ 1 VA (+/-15%)
LED Indication:	ON when relay energised.
Output States:	Jumper selectable AUTO/ON/OFF. Auto, controlled by input. On, always on. Off, always off.
Electrical connections:	Rising cage terminals for 0,5 to 2,5mm ² cable.
Ambient Conditions:	-10 to 50°C 0 to 80% RH non-condensing.
Dimensions:	80 x 25 x 52mm.
Weight:	46g
I.P. Rating:	IP00.
Mounting	Flame retardant green Polyamide 66 UL 94V0 moulding. To suit 35mm top hat din rail.

Switching Table

Input	Relay Status
0V DC	OFF
1V DC	OFF
1.8V DC	ON
5V DC	ON
10V DC	ON

Input > 1.8V DC to switch relay on.
<1 V DC to switch relay off.
I.e. 0.8V differential.

See also the 1 SRM Installation Sheet for wiring detail.

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Watchtower Trading reserves the right to update this product, revise and update this publication including information hereof without obligation to notify any person of such updates, revisions or changes.

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