SC2/D

Signal converter, two stages on-off

SC2/D is a two stages signal converter for controlling in HVAC- systems.

* Two stages in sequence or binary (three stages)
* Switchable for heating or cooling
* Input signal 0-10V
* Adjustable hysteresis and step-differential
* Compact form for easy mounting on a DIN-rail

Function

Function
SC2/D is a two stage signal converter which converts a 0-10V signal into two closing relay outputs and can be set for heating or cooling.

SC2/D comes in a standard casing for DIN-rail mounting and has all settings accessible on the front.

Control modes
Switches 1-3 are used to set the relay sequence to fit the application.

SC2/D can be adjusted for the following applications:

- One stage cooling and one stage heating
- Two stages cooling
- Two stages heating
- Three stages cooling, binary
- Three stages heating, binar

Setpoint
The setpoint is determined by means of the setpoint knob on the front. The scale is from 0 to 10V and the value determines at which input signal the first stage is to be cut out. The stage activates when the input signal exceeds the set-point by the value shown on the switch marked DIFF, (the hysteresis).

Hysteresis
The difference in input signal between a relay´s ON-point and OFF-point. Adjustable and equal for all steps.

Step differential
The difference in input signal between the relay´s OFF-points.

Indication
SC2/D has LEDs which indicates that power is on and that relay outputs are activated.

Technical data

General

Supply voltage	24 V AC +/- 15 % 50-60 Hz, 24 V DC (18...35 V DC)
Power consumption	2 VA
Ambient temperature	0...50°C
Storage temperature	-40...+50°C
Ambient humidity	Max. 90% RH
Form of protection	IP20
CE	This product conforms with the requirements of European EMC standards CENELEC EN 50081-1 and EN 50082-1, European LVD standards IEC 669-1 and IEC 669-2-1 and carries the CE-mark

Inputs

Input signal	0-10 V DC

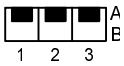
Outputs

Relay	Two closing relays, 230 V AC 10 A. Indication when relay outputs are activated

Settings

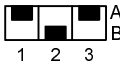
Setpoint Setpoint	0...10 V
DIFF Hysteresis	0,1...2 V
SDStage difference	0...2 V

Function switches



R1 ON on decreasing input signal
R2 ON on increasing input signal

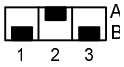
This is factory setting



Two stages in sequence on increasing input signal
First R1 then R1 + R2

Two stages in sequence on decreasing input signal
First R1 then R1 + R2

Three stages binary on increasing input signal
First R1, then R2 and then R1 + R2

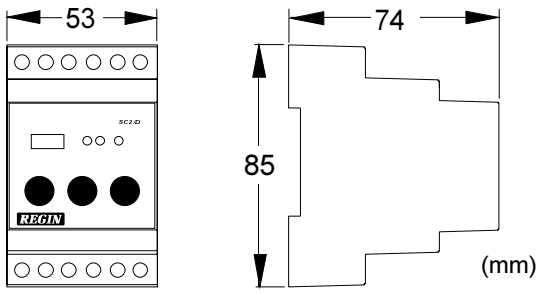


Three stages binary on decreasing input signal
First R1, then R2 and then R1 + R2.

Wiring and dimensions

1	R1	
2	10(2)A 230V ~	
3	Not connected	
4	Not connected	
5	R2	
6	10(2)A 230V ~	
7	Input signal 0-10V DC	
8	Signal neutral	
9	Not connected	
10	Not connected	
11	Sys.neutral	Supply
12	24V~ in	voltage

For supply voltage 24V DC terminal 11 is to be connected to minus (-) and terminal 12 to plus (+).



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