



SC2/D

Signal converter, two stages

SC2/D is a two stage signal converter for control of HVAC- systems.

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, binary

Cooling means the stage will activate when the input signal is lowered and heating means the stage will activate when the input signal is rising.

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).

Short facts about SC2/D

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

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 LED:s, indicating that power is on and that relay outputs are activated.

Technical data

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



Low Voltage Directive (LVD) standards: This product conforms to the requirements of the European Low Voltage Directive (LVD) 2006/95/EC through product standards EN 60669-1 and EN 60669-2-1.

EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2004/108/EC through product standards EN 61000-6-1 and EN 61000-6-3.

RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Inputs

Input signal 0...10 V DC

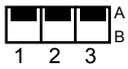
Outputs

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

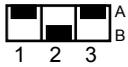
Settings

Setpoint 0...10 V
DIFF Hysteresis 0.1...2 V
SD Stage difference 0...2 V

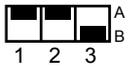
Function switches



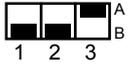
R1 ON on decreasing input signal. R2 ON on increasing input signal. **This is the factory setting.**



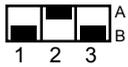
Two stages in sequence on increasing input signal. First R1 then R1 + R2.



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



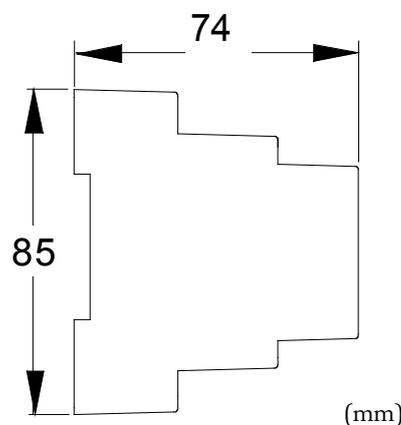
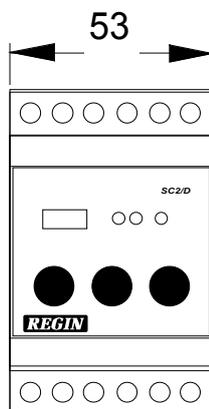
Three stages binary on increasing input signal. First R1, then R2 and then R1 + R2.



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

Wiring and dimensions

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



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

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