



**SC1/D is a one stage signal converter for controlling in HVAC-systems.**

- \* One stage, changeover
- \* Input signal 0-10 V.
- \* Individually settable On and Off levels.
- \* Compact form for easy mounting on a DIN-rail

## Function

SC1/D is a signal converter which converts a 0...10V signal to a single pole relay changeover output. When the input signal reaches the preset signal level the relay output changes.

SC1/D comes in standard casing for DIN-rail mounting and has all settings accessible on the front.

### Control modes

The OUTPUT switch is used to select if the relay output is to be activated on rising (POS) or falling (NEG) input signal.

In the POS position the relay will be activated when the input signal exceeds the value set by the knob HIGH. The relay will be deactivated when the input signal falls below the value set by the knob LOW.

With the switch set to NEG the relay will be activated when the input signal falls below LOW and deactivated again when the signal goes above HIGH.

In both cases the set value for HIGH must always be higher than that set for LOW.

### Indication

SC1/D has LEDs which indicate that power is on and that relay is activated.

### Application

The signal converter is for example used to control cooling or heating on/off from an analogue 0...10V signal.

**Technical data**

**General**

Supply voltage	24 V AC +/- 15 % 50-60 Hz
Power consumption	2 VA
Ambient temperature	0...50°C
Storage temperature	-40...+50°C
Ambient humidity	Max. 90% RH
Class 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.

**Input**

Input signal	0...10 V
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**Output**

Relay	One changeover relay, 230 V AC 10 A. Indication when relay is activated.
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**Settings**

HIGH Upper changeover	0...10 V
LOW Lower changeover	0...10 V

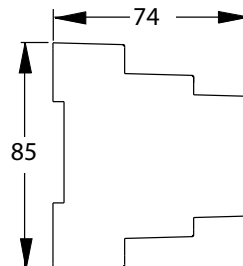
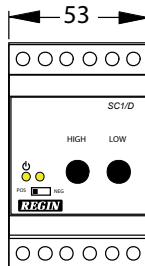
HIGH must always be set to a higher value than LOW. For stable function, the difference between HIGH and LOW must not be less than 0.1 V

**Function switch**

OUTPUT	POS Positive function logic. See instructions overleaf. NEG Negative function logic. See instructions overleaf.
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**Wiring and dimensions**

1	Neutral	Supply-voltage
2	24V AC in	
3	Not connected	
4		Relay 10A, 230V AC
5		
6		
7	Signal neutral	
8	Input signal 0-10 V	
9	Not connected	
10	Not connected	
11	Not connected	
12	Not connected	



(mm)

Terminal 1 - System neutral and terminal 7 - Signal neutral are internally connected