SC1/D

Signal converter, 1 stage

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**

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

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
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.

Input

Input signal 0...10 V

Output

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

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

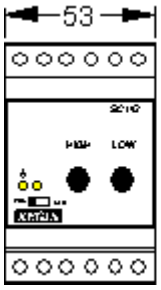
Function switch

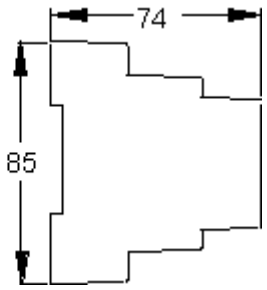
OUTPUT POS Positive function logic. See instructions overleaf.

NEG Negative function logic. See instructions overleaf.

Wiring and dimensions

1	Sys.neutral	Supply-voltage
2	24V AC in	
3	Not connected	
4		Relay 230V AC, 10A
5		
6		
7	Signal neutral	
8	Input signal 0-10 V DC	
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

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