SCP110/SCC110

PART NUMBER

Part Number	Model Number
006902500	SCP110
006902510	SCC110

SPECIFICATIONS

Threshold . . . . . .93% rH 3% (adjustable)

Sensor

Type . . . . . .Resistive dew formation sensor
Response. . . . . .Max. @ >75% rH
Signal output .Relay contact (change-over) 24V/1A, potential-free
Contact material. . . . . AG/Ni 90/10
Power. . . . . .24 vac 10% / 18-32 Vdc
Current consumption . . . . . .max. 25mA@24Vdc
Ambient temperature . . . . . .0 to 60 C
Weight 150g
Dimensions. . . . . See Figure 1

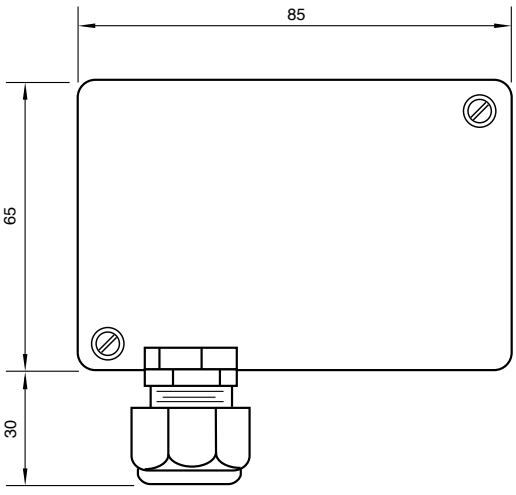
Standards

EMC. . . . . EN 50081-1, EN 50082-1

Condensation Detectors

The SCP110/SCC110 condensation detectors are intended for use in air conditioning and chilled ceiling applications. These products are electronic condensation detectors that compare the measured high humidity level with an adjustable threshold (90%..93%..96% rH). If the relative humidity near the thermal connection between medium and sensor reaches the threshold, then the relay contact switches from NC to NO. After decreasing below the threshold by a 3% hysteresis, the relay contact switches back to NC.

DIMENSIONS mm (in)



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Mounting and Operation Instruction

Note! The sensor element of the SCP110 and SCC110 must be mounted at the coldest spot of the pipe system because this area will have the highest risk of condensation.

The SCP110 is designed for direct mounting on the pipe system. The sensor element is mounted in the contact material to the pipe below the housing.

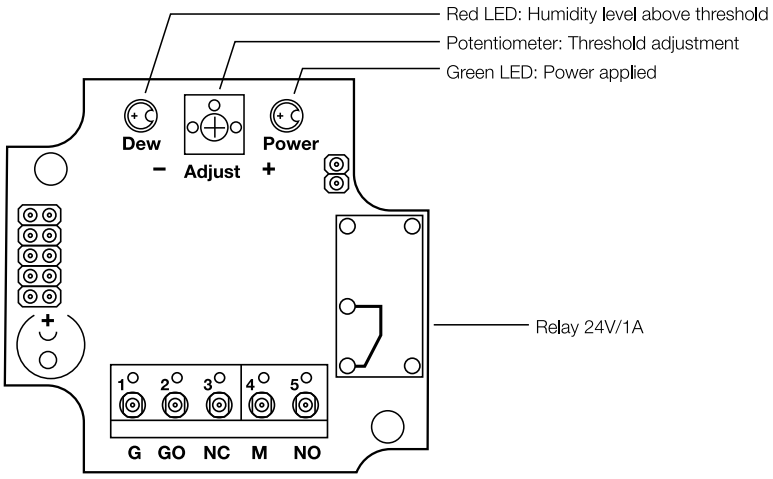
The SCC110 has a remote sensor with a 2m wire. The sensor element is fitted into a sensor head made of aluminum.

A green LED signals the operation, state, the red LED signals a humidity level above the threshold (risk of condensation). With the potentiometer the threshold can be adjusted on the range of 90..96% rH. The midposition equals 93% rH and is the most common adjustment.

Threshold and Hysteresis

The SCP110/SCC110 switches its relay after reaching the adjusted threshold. An integrated hysteresis of 3% guarantees a safe switching behaviour. Both connections of the relay (NC and NO) are available at the wiring terminals and are volt-free.

WIRING



Electrical Connection:

NC: Closed at applied power and no condensation

G: Supply 24AC/DC

M: Change-over contact

G0: Ground/GND

NO: Closed without power or humidity level above threshold