



EE046-T11

Condensation Switch

The EE046 Early Warning Dew-point or Condensation Switch helps to prevent condensation on critical cold spots. It reliably detects the danger of condensation just before it occurs with the help of its relative humidity (RH) sensing element.

Mounting options

EE046 is available as the wall mount/pipe mount model is appropriate for installation on flat surfaces and on pipes with a maximum diameter of 50 mm (2"). It is mounted on cooling ceilings, on cooling or cold water piping, cooled surfaces and chilled beams.

Reliable anti-condensation safe guard

Condensation on a surface occurs when the humidity of the air close to the surface reaches 100 %. Because of the very good thermal coupling with the surface, the EE046 measures the RH of the air directly at surface temperature. Its properties make it the ideal choice for applications where control guards are required to prevent dripping or mould.

Early detection of condensation risk

The relay output provides an early warning before condensation actually happens. It also indicates a power supply failure or a broken cable. A status LED indicates normal operation, alarm or power supply failure. The proprietary coating protects the humidity sensor against dust and dirt.



Typical Applications

- Concrete core activation
- Underfloor cooling
- Switching cabinets
- Climate control

Features

- Fast response time
- Dust protection
- Compact design and easy mounting
- LED status indication

Technical Data

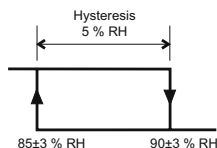
Measuring range

Humidity (RH)

Working range 10...100 % RH

Threshold at 20 °C (68 °F), 24 V AC/DC 90 ± 3 % RH

Hysteresis



Response time at change of the surface temperature $t_{90} < 3 \text{ min}$

Response time at change of the relative humidity $t_{90} < 25 \text{ s}$

Output

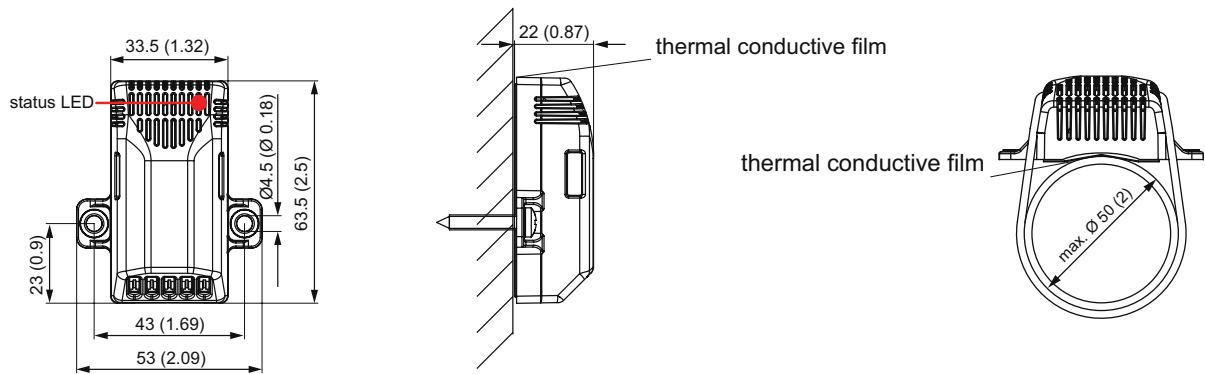
Relay	Changeover contact, potential free
Switching capability	Max. 24 V AC/DC, 1 A
Contact functions	
WET	Contact for RH > threshold, Power off (NC)
DRY	Contact for RH < threshold, Power on (NO)

General

Supply voltage (Class III) 	24 V AC/DC ± 20 %
Current consumption	< 6 mA for 24 V DC supply < 10 mA for 24 V AC supply
Relay status indication	LED, red
Electrical connection	5-pole push-in terminal, max. 1.5 mm ² (AWG 16)
Protection sensor / electronics	E+E proprietary coating / varnish
Housing protection class	IP40
Housing material	Polycarbonate, UL94-V2 approved
Electromagnetic compatibility	EN 61326-1 EN 61326-2-3 Industrial Environment FCC Part15 Class A ICES-003 Class A
Temperature range	Operation 0...50 °C (32...122 °F) Storage -20...70 °C (-4...158 °F)
Weight	Wall mount/pipe mount version: approx. 60 g Snap-on mount version: approx. 80 g

Dimensions (mm/inch)

Wall mount/Pipe mount



Installation

Ordering Information

Description	Item No.:
Early Warning Dew-point Switch	EE046-T11

For more information
resideo.com



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Manufactured for and on behalf of the
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by its Authorised Representative Ademco 1 GmbH

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