

Typ: WFRRN-210.018



: D4780572

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Dew point monitor, 230VAC, toggler, potential-free

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For interrupting the cooling, when the relative atmospheric humidity exceeds approx. 98%.

Method of operation:

If the surface temperature of the dew point sensor is equivalent to the dew point, a microscopic film of moisture forms on its surface. This film changes the resistance value of the dew point sensor to such an extent that the connected controller or monitor detects this change and disables the cooling. In this manner, dripping condensate water at maximum cooling and hence moisture damage to the building fabric are avoided. When the dew point sensor dries off again, the resistance value increases and cooling is re-enabled. To ensure that a pending undershooting of the dew point is detected in time, the dew point sensor should be fastened at the point where the dew point is most likely to be reached first along the cooling circuit. Generally, these locations are at the inlet coming into the room and/or near windows. If the place of likeliest occurrence of the dew point cannot be unambiguously determined, it is possible to connect up to 5 dew point sensors in parallel to one controller or monitor.

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: 36 x 59 x 86 mm

: 1

:switching
:4000 V
:230 VAC, 50 Hz
:approx. 1 VA
:Screw-type terminals up to 2,5 mm²
:light grey, like RAL 7035
:
:8 M.
:
:-20...+70 °C
:Plastic PC
:230 VAC, 50 Hz / 60 VDC
:10 (3) A at 230 VAC, 10 A at 30 VDC, 1 A at 60 VDC
:Air, not aggressive
:depending on the switching current (min. 0,3 W)
:depending on the switching voltage (min. 0,3 W)
:Standard rail mounting
:matt
:
:Dew point triggering
:Relay
:Changeover
:2300 VA at 230 VAC, 300 W at 30 VDC, 60 W at 60 VDC
:approx. 98% relative humidity.
:IP 20
:II, if properly mounted
:according to DIN EN 60730
:
:
:55
:0
:2
:Dew point sensors (TPS)
:max. 95% r.h., non-condensing
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