



Humidity Annex Switch



measuring
•
monitoring
•
analysing

AFS-G3



- For monitoring condensed water formation
- Operating range: 50...100 % rH
- Microswitch



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Description

The humidity annex switch of type AFS-G3 serves to monitor condensed water formation. The hygro module of the measuring instrument is arranged on an aluminium baseplate so that the measuring element is near the mounting plate.

Protected by the housing relative humidity near the dew point can form inside. The aluminium baseplate is adjacent to the cooling tube and conducts heat from the measuring element.

The measuring point can be set inside. The threshold should be adapted for local conditions. The microswitch switches a potential-free changeover contact.

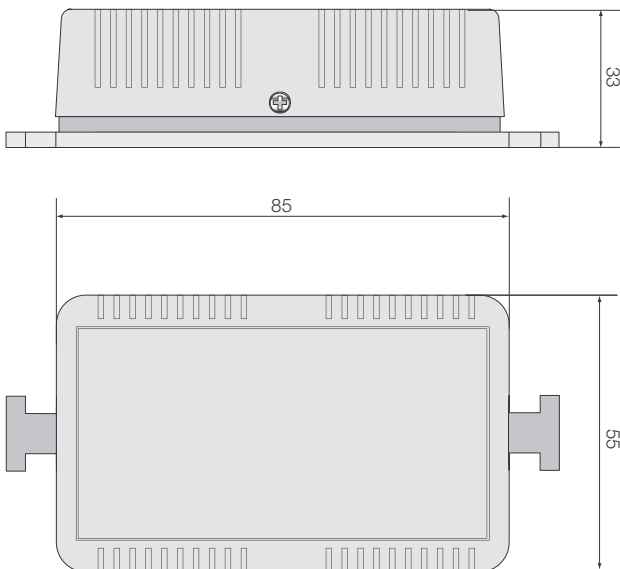
The AFS requires no supply voltage.

Application Examples

Monitoring condensed water formation:

- General cooled surfaces
- Office and computer rooms
- Building management systems
- Cooling roofs
- Cooling systems

Dimensions



Technical Details

Physical details

Measuring range:	30...100% rH
Measuring accuracy:	±3.0% rH
Recommended operating range:	50...100% rH
Differential gap (microswitch):	approx. 4% rH (at 50% rH)
Voltage (recommended):	24 V _{AC}
Maximum voltage:	230 V _{AC}

Switch contact

Contact rating, maximum capacity

- Resistive load: 2 A, 48 V_{AC} (50 000 cycles)
 - Inductive load*
cosφ=0.8: 0.2 A, 230 V_{AC}
- Minimum contact rating: 100 mA, 20 V_{DC/AC}

General

Allowed ambient temperature:	0...60°C
Temperature coefficient:	-0.2% rH/K (at 20°C and 50% rH)
Halftime at v=2 m/s:	1.2 min
Electromagnetic compatibility	
• Noise immunity:	EN 50 082-2
• Emitted interference:	EN 50 081-2
Protection:	IP 20
Dimensions:	85 x 55 x 33 mm
Weight:	approx. 70 g
Contact:	connection terminals
Installation position:	any

*Check suitability!

Order Code: AFS-G3