Data Sheet WSERD-534.446

Article number: G8000429

Electronic air flow monitor for mounting on the air duct

The WSERD air flow monitor is suitable for monitoring fans, control dampers, humidifiers and electric heating registers in accordance with DIN 57100, Part 420 and for use with DDC systems. The air flow monitor works according to the calorimetric principle. The heat extraction by the air flow is measured and converted into the switching value. The sensor contains a heating element and two temperature sensors. A microcontroller controls the heating and measures the temperature differences. It calculates the air flow velocity from the stored calibration curves and transmits the value serially to the control unit. Here, another microcontroller determines the switching behavior of the two relays from the default values of the setting controllers. It is mounted on the duct using the mounting flange included in the scope of delivery.

Can be read off	No
Number of switching stages	10
Wire break or measurement circuit monitoring	20 s
Rated impulse voltage	4000 V
Operating voltage	230 VAC, 50 Hz / 24 VAC, 50 Hz / 24 VDC
Transistor output	15…120 s
Adjustable tripping value for flow with fluids	0.2 … 10 m/s
Electric connection	screw terminals

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With explosion protection	No
Sensor element	hot film anemometer
Bearing temperature	–10 … 70 °C
Length of sensor	165 mm
Housing material	plastic
Max. Sensor temperature	90 °C
Max. switching voltage	230 VAC, 50 Hz
Max. switching current	8 A
Medium	Air
Medium temperature	-20 … 90 °C
Probe integrated in the device	Yes
Min. sensor temperature	-20 K
With display	No
Included with probe	Yes
Switching difference, can be adjusted	Yes
Switching contact	2 two-way contacts
Potential free switching contact	Yes
Protection class	IP65 Gehäuse / IP54 medienseitig
Protection class	II, following appropriate mounting
Ambient temperature for evaluation electronics	0 … 50 °C
Ambient temp. for evaluation electronics from	0 °C
Degree of contamination	2

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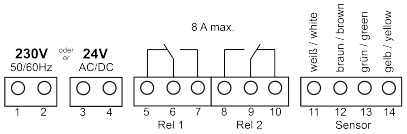
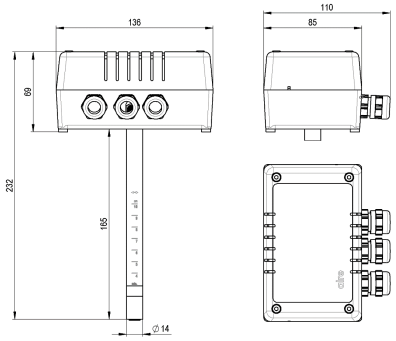
Dimensions (W x H x D)	136 mm x 110 mm x 69 mm





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