

Technical datasheet airflow sensor AFS100

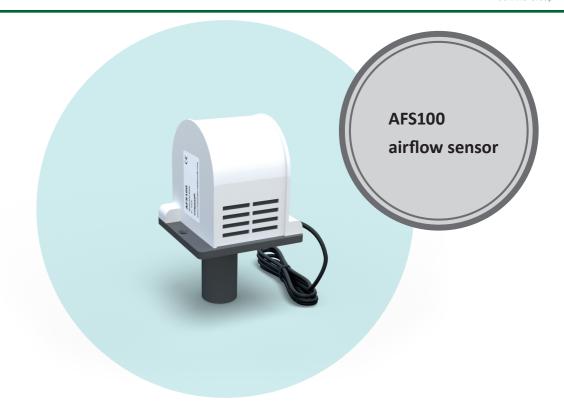






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TECHNICAL DATA

	Measuring principle	dynamic, hot-wire		
		anemometric principle		
	Measuring range	0.15 m/s to 1.00 m/s		
	Output voltage	0 V to 5 V DC		
	Response time	< 100 ms		

SPECIAL FEATURES

- Microprocessor-controlled airflow sensor
- Standardised analogue output voltage
- Simple installation
- Suitable for all types of laboratory fume cupboards







PRODUCT DESCRIPTION

SCHNEIDER

The airflow sensor AFS100 measures the air flow into the laboratory fume cupboard in the bypass, independent of the horizontal or vertical sash position.



IMPORTANT!

The product is exclusively intended for use in connection with the devices of SCHNEIDER Elektronik.

FUNCTIONAL DESCRIPTION

Using an airflow sensor AFS100 developed by SCHNEIDER a change of the horizontal and vertical sash position is registered on the laboratory fume cupboard and provided as a standardised output signal in the range of 0 - 5 V DC.

The airflow sensor AFS100 enables very precise, fast measurements in the range of 0.15 m/s - 1.00 m/s. This measuring range is particularly suitable for determining the face velocity in laboratory fume cupboards (e.g. 0.5 m/s).

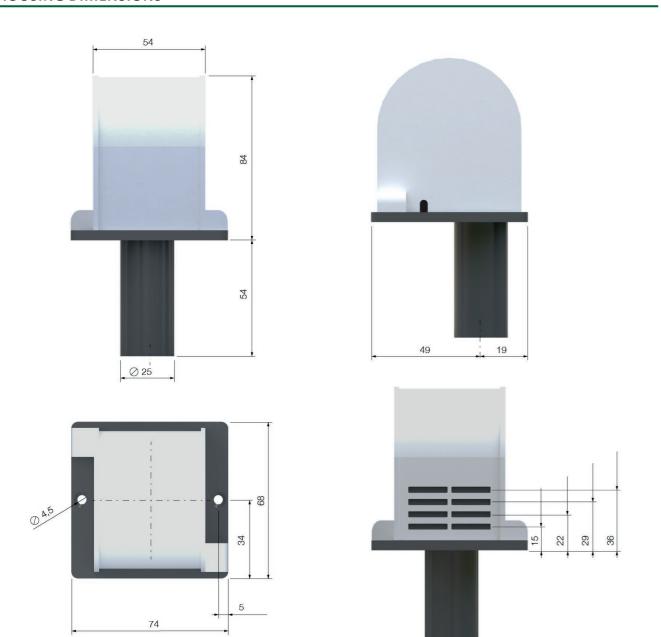








HOUSING DIMENSIONS



MOUNTING

Two mounting options are generally available:

- Mounting of the airflow sensor on the laboratory fume cupboard between the front sash and the exhaust air pipe.
- Mounting of the airflow sensor on the front side at the lateral bar of the laboratory fume cupboard in the area of the front sash. The airflow sensor is connected to the interior of the laboratory fume cupboard by means of a flexible hose.



NOTE!

The opening of the airflow sensor must be visible inside the laboratory fume cupboard and must not be obstructed (e.g. behind

the diffuser plate or the baffle plate).

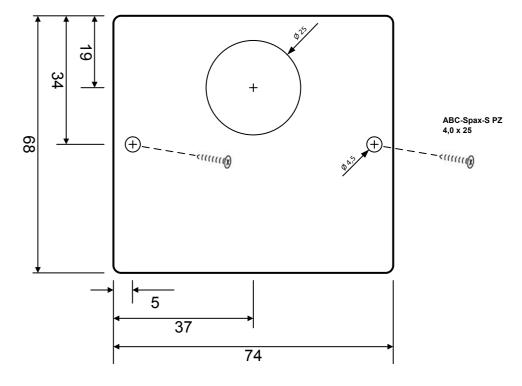
The air flow sensor must not be mounted in the area of air diffusers. Ensure that the air can flow into the airflow sensor in a laminar manner without any interference.

Make sure that the air can flow freely through the air flow sensor. If the flow tube or the inflow slots are dirty or covered, the measurement result will be falsified.

Electrical connection

The preassembled sensor cable is fitted with a RJ-10 plug for direct connection to the laboratory fume cupboard controller and monitor.

OBEN / TOP





IMPORTANT!

Make sure that you use screws with sufficient load-bearing capacity and according to their condition.



The information and data contained in this data sheet have been compiled to the best of our knowledge and in accordance with the current state of the art (subject to technical changes). The currently valid version applies. The proven properties of SCHNEIDER products are based on the use of the products recommended in this documentation. Diverging situations and individual cases are not taken into account, so that we cannot assume any warranty and liability.

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