



Product overview

AX-AFS is a electro-mechanical flow switch for use in ventilation systems.

The AX-AFS flow switch is intended for flow control of air and non-aggressive gas. They have a built-in switch with an alarm signal for flow shortage signalling.

Applications AX-AFS is well-suited for ducts used in general industrial applications, such as:

- Air conditioning systems
- Ventilation ducts
- Air treatment facilities

Products Features

- Paddle can be trimmed to fit higher air flows
- For vertical or horizontal mounting
- Breaking capacity 15 (8) A at 24...250 V AC
- Protection class IP65

Product Specifications

Contact:	Dust-tight microswitch with switching contacts NO/NC
Switch capacity:	15 (8) A, 24...250V AC
Protection:	IP65, class 1
Materials:	Paddle: Stainless steel AISI 301 Enclosure: Base in ABS, transparent Polycarbonate (PC) cover
Operating Temperature (for switch housing outside of duct):	-40...+85°C
Internal duct operating temperature	-10...+85°C
Humidity:	10...90 % RH (non-condensing)
Dimensions:	265.5 x 140 x 102 mm
Weight:	630grams
Certification:	CE, EU LVD, EU RoHS
Country of origin:	Sweden

Product Order codes

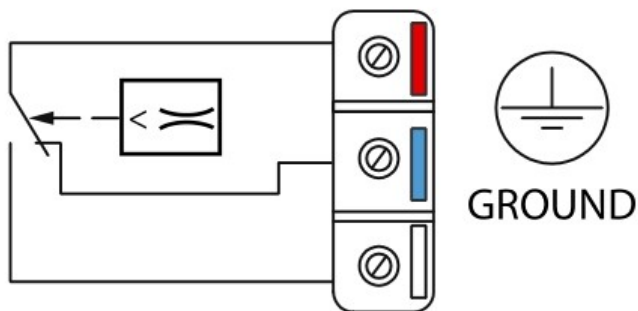
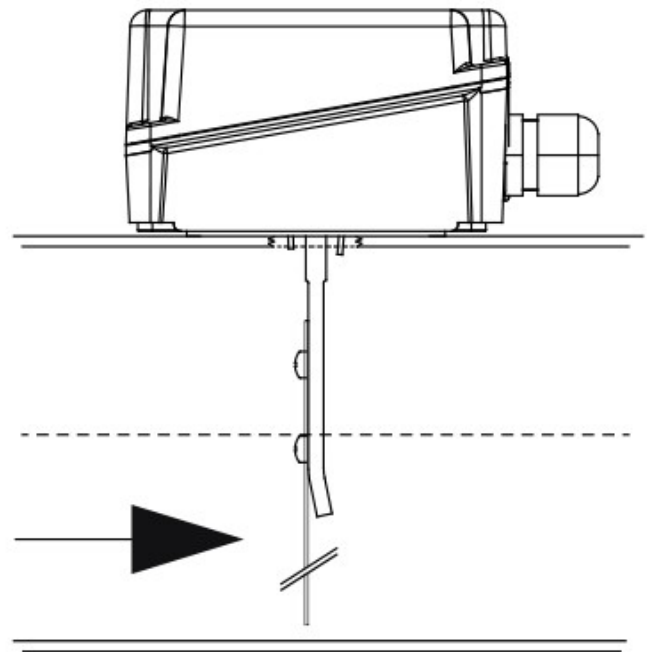
Order code	Min. air flow (m/s)	Max. air flow (m/s)	Max. air temp (°C)
AX-AFS	1.0 (not trimmed) or 2.5 (trimmed)	8.0 (not trimmed) or 9.2 (trimmed)	85

Installation

The flow switch can be installed in either a horizontal or vertical position. The air flow breakpoint can be changed by turning the setting screw under the cover. The unit is set to the lowest setting on delivery. If air flow in the duct exceeds 5 m/s, the paddle may risk fracturing. When used at greater speeds, the paddle must therefore be trimmed by being vertically cut to an appropriate width (indicated on the back of the paddle). When properly trimmed, the minimum measuring range of the device will increase from 1 m/s to 2.5 m/s. The device should be mounted so that the arrows match the flow direction of the air stream inside the duct (see picture on right).

If the duct is vertical, the range of the flow switch must be recalibrated so that the paddle weight is properly balanced. AX-AFS must be installed in a straight duct with an unimpeded length of at least 5 times the duct diameter available both upstream and downstream of the unit, in order to prevent air swirl and paddle instability.

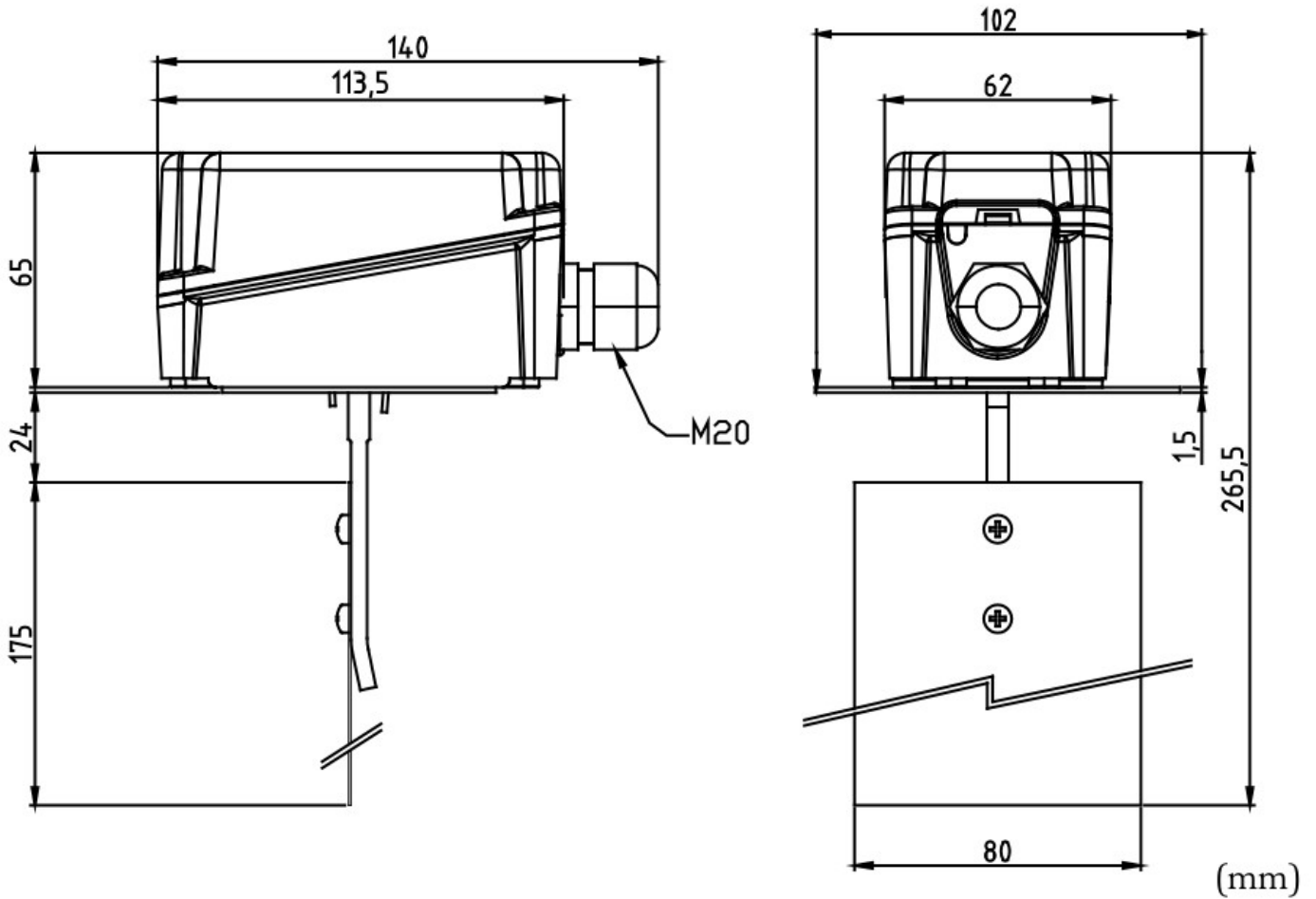
Note: If the flow switch is used as a minimum flow controller, it is necessary to add another device downstream from the first one for alarm condition activation.



Wiring

The diagram (see left) details wiring for flow presence: Connect to the red and white contacts of the micro-switch. They will open when the flow drops below the set level. When no flow is present, the red/blue contacts will close and can be used for a signal or alarm.

Dimensions



Datasheet contents

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