

# AFS I

## Air flow switch



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

- ✓ 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

### Application

AFS I is well-suited for ducts used in general industrial applications, such as: Air conditioning systems, ventilation ducts and air treatment facilities.

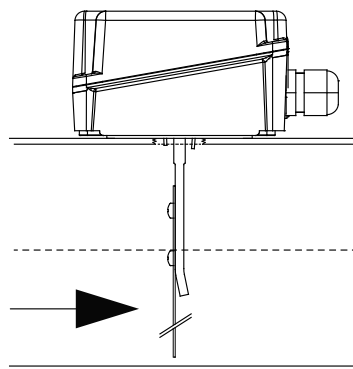
### Function

The AFS I 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.

### 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). If the duct is vertical, the range of the flow switch must be recalibrated so that the paddle weight is properly balanced. AFS I 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.



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AFS I

## Technical data

<b>Contacts</b>	Dust-tight microswitch with switching contacts (NC/NO)
<b>Switch capacity</b>	15 (8) A, 24...250 V AC
<b>Operating temperature (for switch housing outside of duct)</b>	-40...+85°C
<b>Internal duct operating temperature</b>	-10...+85°C
<b>Humidity</b>	10...90 % RH (non-condensing)
<b>Protection class</b>	IP65, class I



This product carries the CE-mark. More information is available at [www.regincontrols.com](http://www.regincontrols.com).

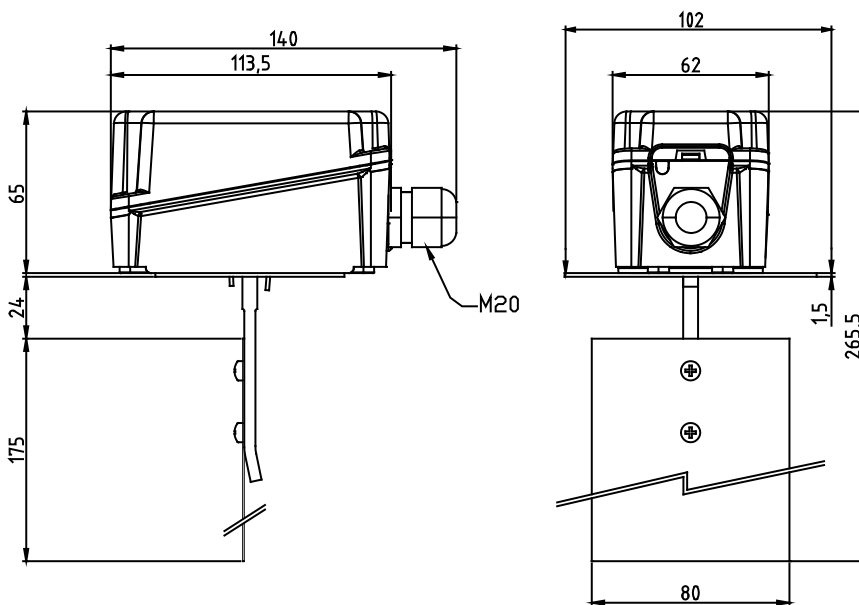
## Material

<b>Paddles</b>	Stainless steel AISI 301
<b>Housing</b>	Base in ABS, transparent Polycarbonate (PC) cover

## Models

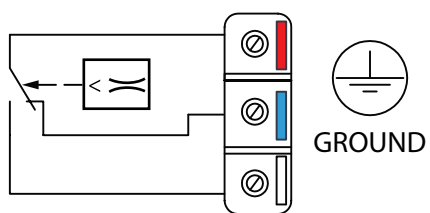
Article	Min. air flow (m/s)	Max. air flow (m/s)	Max. air temp (°C)
AFS1	1.0 (not trimmed) or 2.5 (trimmed)	8.0 (not trimmed) or 9.2 (trimmed)	85

## Dimensions



[mm]

## Wiring



## Documentation

All documentation can be downloaded from [www.regincontrols.com](http://www.regincontrols.com).