

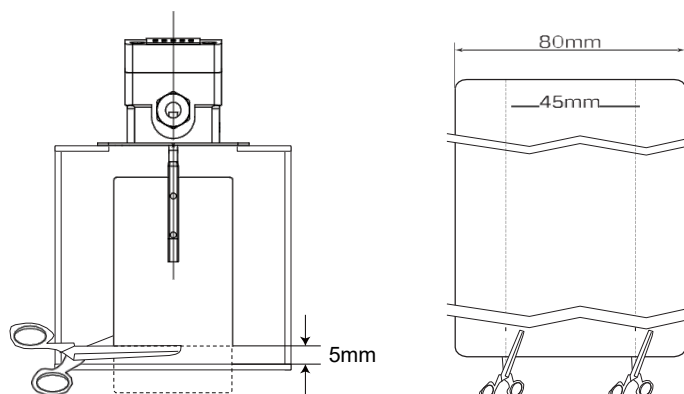


HAFS-0211 Air Flow Paddle Switch

The paddle type HAFS-0211 air flow switch is used for on/off indication of air flow (non-corrosive gases) in air-conditioning ducts, AHU's, etc.

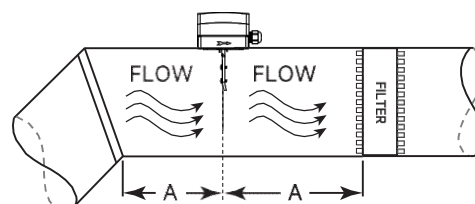
Mounting

- The air flow switch can be mounted on the top, side or the bottom of a duct
- Before you start to install the air flow switch, please use the right size paddle, trimming the paddle size if it is too big to fit into the duct
- The standard paddle size we supplied is 80mm x 175mm, it can be trimmed as small as 45mm x 175mm, if the width of the duct is smaller than 80mm. The small size paddle (45mm x 175mm) will not work in a duct smaller than 76mm x 152mm

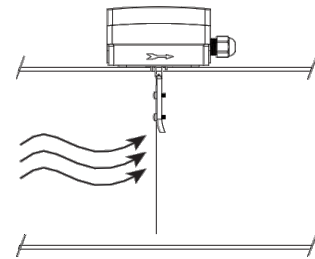


- The end of the paddle should be at least 5mm clear of the bottom of the duct to ensure correct operation
- The air flow switch is only suitable for indoor installation.
- Avoid locations close to elbows, dampers, fans, duct openings, or other areas where excessive turbulence may occur.
- Mount the switch away from the above said areas at least five times the distance of the smallest duct dimensions as shown below.
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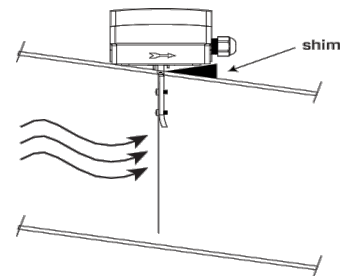
Dimension A must be at least five times the distance of the smallest duct dimension.



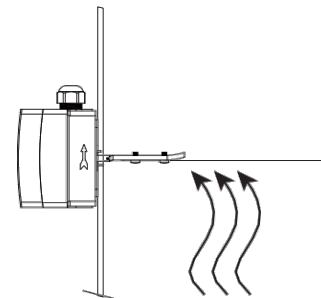
Mounting on a horizontal duct, ensuring the enclosure is level and paddle is at 90 degrees angle to the air flow.



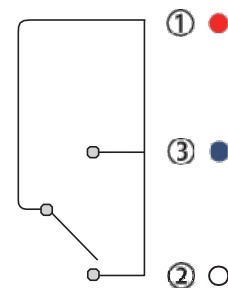
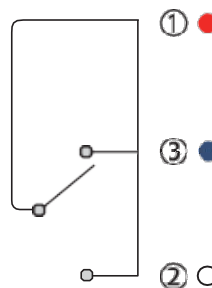
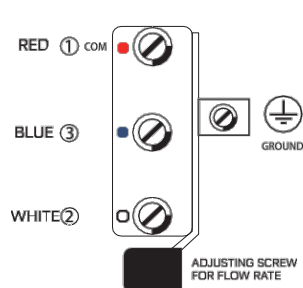
If the duct is not level place a shim under the mounting plate to make the enclosure level, to avoid gravitational effects to the operation.



If mounting in a vertical duct where the airflow is upward, the adjustment screw may need be set to compensate for the additional gravitational force



Electrical Wiring



1-3 Make on air flow increase **1-2** Make on air flow decrease

Make all wiring connections using copper conductors only, and in accordance with the local regulations. The switch terminals are color coded as follows:

- Red is common
- Red closes to Blue on air flow increase (NO)
- Red closes to White when no air flow (NC)



Caution



The power supply must be switched off before carrying out any alterations or maintenance

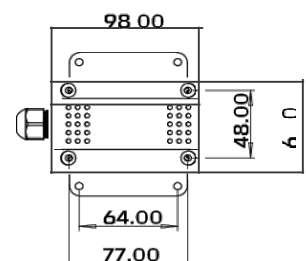
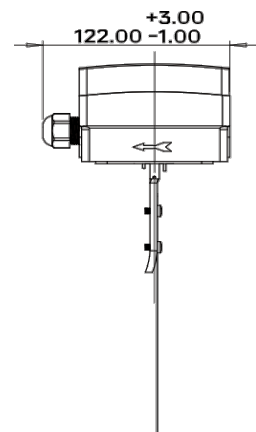
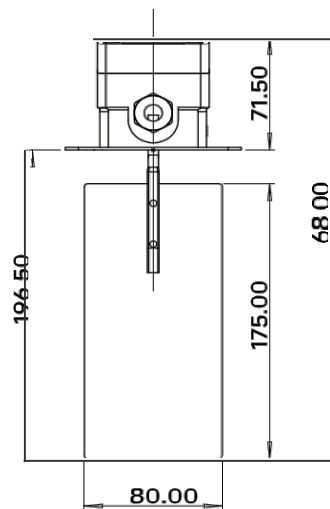
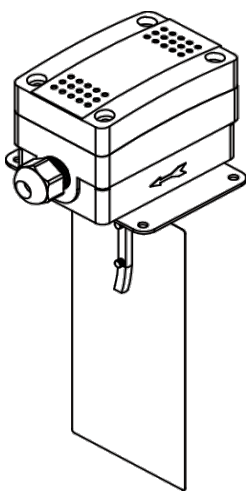


Only suitably qualified personnel should undertake any maintenance of the device



Observe local regulations with regard wiring and circuit protection

Dimensions





Technical Data

Switch Contacts:	SPDT, 15(8)Amp, 250Vac
Operation Response:	ON – max. 8ms OFF – max. 10ms
Paddle Size:	80 x 175mm (3.2 x 6.9")
Paddel + Lever Length:	196.5mm (7.74")
Paddle Material:	SS316
Flow Medium:	Air & non-aggressive gases
Ambient Operating Temperature:	Housing -40...85 °C (-40...185 °F) Paddle -10...85 °C (14...185 °F)
Ambient Humidity:	10...95 %rH
Materials:	Housing – ABS or PC Base – Galvanised steel
Protection Class:	IP54
Shipping Weight & Dimensions:	0.5kg / 200 x 110 x 140mm
Conformity & approvals:	



Flow Rate Setting Range

Paddle size		175*80mm	175*45mm
Mín. Flow	Increasing flow Switch ON	2	2.5
	Decreasing flow Switch OFF	1.5	2
Max. Flow	Increasing flow Switch ON	6	9.5
	Decreasing flow Switch OFF	5	9
Max flow allowed in the duct		7.2	10