AX-FSA

Air Flow Switch

Product Overview

AX-AFS is a electro-mechanical flow switch for use in ventilation systems. The AX-FSA 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-FSA 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
- IP65 Housing
- Breaking capacity 15 (8) A at 24...250 VAC
- Protection class IP65
- Brass level

Product Specifications

Contact:		Dust-tight microswitch with switching contacts NO/NC
Switch capacity:		SPDT, 24/250 VAC, 15 (8) A
Flow rate switching:	(Cut-out)	Min. 1.0 m/sec, Max. 8.0 m/sec
	(Cut-in)	Min. 2.5 m/sec, Max. 9.2 m/sec
Paddle size:		3.2 x 6.9 in. (80 x 175 mm)
Paddle w/level - Length		7.9 in. (200 mm)
Material	(Paddle)	Galvanized Steel
	(Level)	Brass
	(Enclosure)	Fire retardant ABS plastic
Operating temperature:	(Housing)	-40°C to 85°C
	(Paddle)	-10°C to 85°C
Humidity:		10 - 90% RH, non-condensing
Cable entry:		M18 fitting
Protection:		IP54
Compliances:		CE
Country of origin :		United Kingdom

Product Order Codes

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

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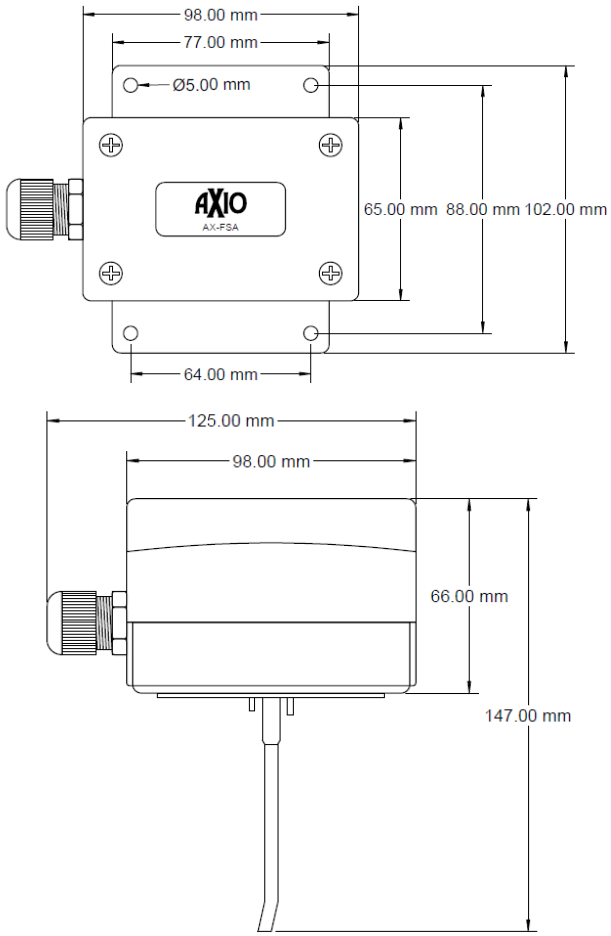
Installation

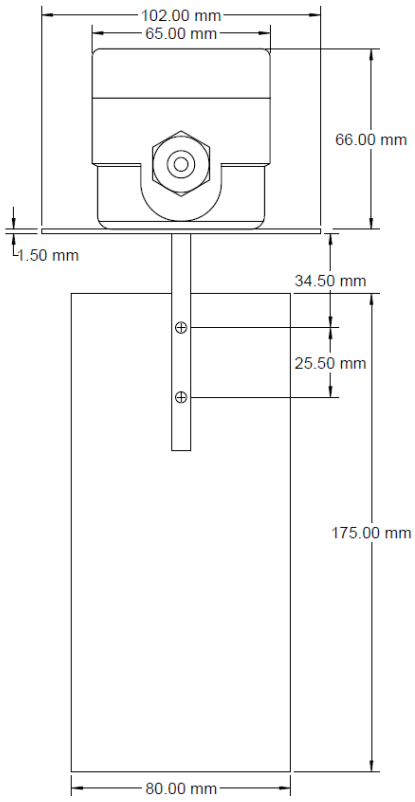
The flow switch should be mounted into a duct or chamber where the air paddle can freely point horizontally downwards. To avoid air swirl and paddle instability, straight zones should be provided for a length of 5 times the diameter of duct upstream and downstream from the installation location.

Note:

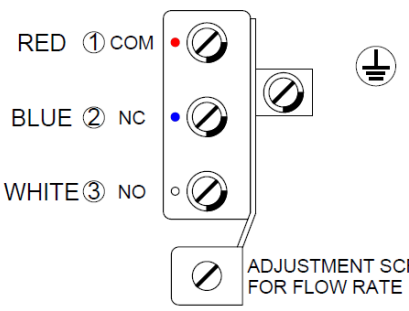
The units are factory calibrated to the minimum switch-off value. To increase the set value, adjust the range screw clockwise. Due to the risk of fracture at air speeds of higher than 5.0 m/sec, the paddle must be cut off on the marked side. When the paddle is cut off, the minimum cut-out value increases from 1.0 m/sec to 2.5 m/sec.

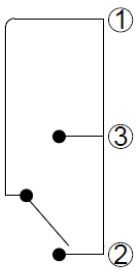
Dimensions



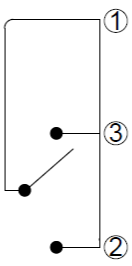


Electrical Connection





Flow increase and attained to cut-in setting
1 and 2 connected



Flow decrease and attained to cut-out setting
1 and 3 connected

Datasheet Contents

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