

Flow Switch Module



Thermal Flow Switch for Gas For reproduceable air flow rate monitoring

Benefits & characteristics

- Reliable and reproducible air flow detection
- Thermal anemometric principle without moving parts
- Switched ground output, suitable for alarm or direct control purposes
- Compact, flat design for easy integration
- Long and reliable operation
- Threshold adjustable

Applications

- Air filter monitoring (e.g.) dust extractors
- HVAC systems minimal flow rate in individual ventilation ducts
- Inert gas flow monitoring or leakage detection



- Fan performance independent monitoring
- Gas velocity verification in air supply or air quality monitoring systems

Illustration









Technical data

Air flow range: Resolution range influenced by assembly position	0.1 – 15 m/s	
Response time: (23 °C, atmospheric pressure and 5 m/sec)	<3s	
Operating temperature range:	-20 °C up to +80 °C	
Storage temperature:	0 °C up to +60 °C	
Power supply:	24 V	
Output switch U max:	60 V	
Output switch I max:	0.7 A	
On-state resistance type:	550 mOhm	
Short circuit protected:	up to 36 V	
Analog output voltage (U analog):	3.5 - 5 V (typical performance, not calibrated)	
Analog output current:	1 mA	
Material:	Aluminum	
Dimensions (L x W x H):	30 x 76 x 10 mm	
Weight:	30 g	
Supply voltage (DC):	18 28 V	
Power consumption:	2.5 W	
Connector:	S4B-ZR-SM4A-TF / JST	



Flow Switch Module rear view

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Pin assignment





Pin 1	Pin 2	Pin 3	Pin 3
U analog	SW Out	Vin	GND
This analog signal output is	Switched ground signal	Power supply for the	Ground - reference for all
not calibrated	Closed = Flowrate above	module	signals
Voltage between approx.	threshold detected		
air flow and measurement	Red LED diode on indicates	Vin	
conditions.	threshold)	Flow Swit	ch Module
Not suitable for load			
(direct control purposes)			GND output

Adjustment of threshold settings

Turn potentiometer marked SET clockwise to set threshold to higher flow rate. Use appropriate force and tools to avoid damaging the potentiometer. Closed state above threshold is indicated by red LED light.

Order Information

Product name

Flow switch module V1.0

Order code

156027



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