



Flow Switch Module

Thermal Flow Switch for Gas

Designed for reproducible air flowrate monitoring

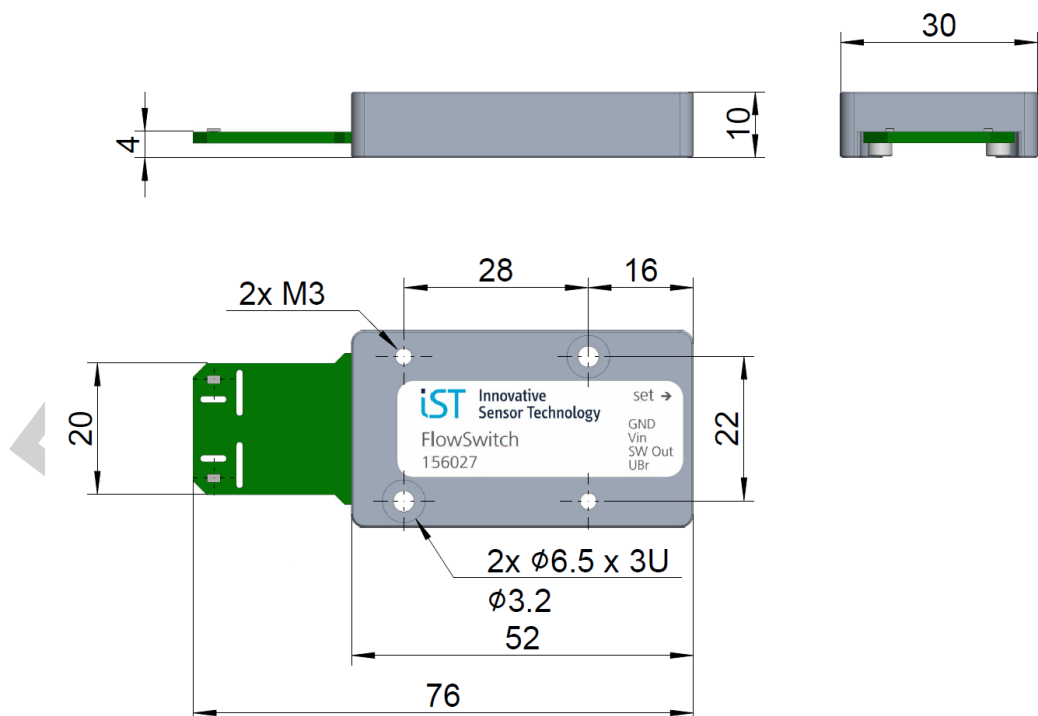
Benefits & Characteristics

- 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 flowrate verification in individual ventilation ducts
- Inert gas flow monitoring or leak detection
- Fan performance - independent monitoring
- Gas velocity verification in air supply or air quality monitoring systems

Illustration

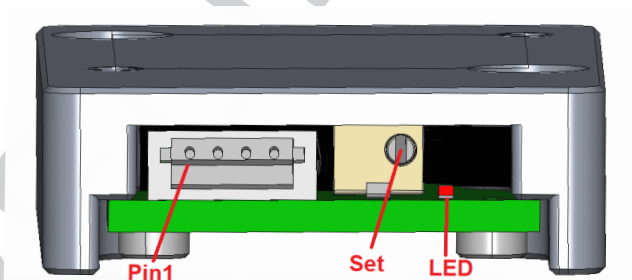




Technical Data

Air flow range: <i>Resolution range influenced by assembly position</i>	0.1 - 15 m/s
Response time: <i>(23 °C, atmospheric pressure and 5 m/sec)</i>	< 3 s
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:	Aluminium
Dimensions (L x W x H):	30 x 76 x 10 mm
Weight:	30g
Supply voltage (DC):	18 ... 28 V
Power consumption:	2.5 W
Connector:	S4B-ZR-SM4A-TF / JST

Pin assignment



Pin 1	Pin 2	Pin 3	Pin 4
U analog	SW Out	Vin	GND

U analog output:

This analog signal output is not calibrated
Voltage between approx. 3.5 and 5V depending on air flow and measurement conditions.
Not suitable for load (direct control purposes)

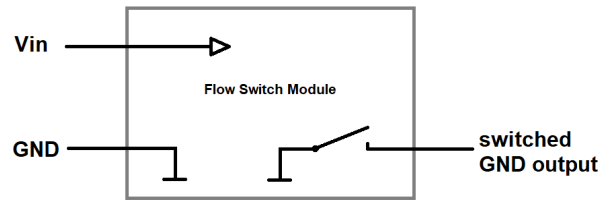
SW out:

Switched ground signal
Closed = Flowrate above threshold detected
Red LED diode on indicates closed state (Flowrate > threshold)



Vin:
Power supply for the module

GND:
Ground - reference for all signals



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

Order code	Flow switch module V1.0 156027
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PRELIMINARY

