

Flow Switch Module

Thermal Flow Switch for Gas For reproduceable air flow rate monitoring

Benefits & characteristics

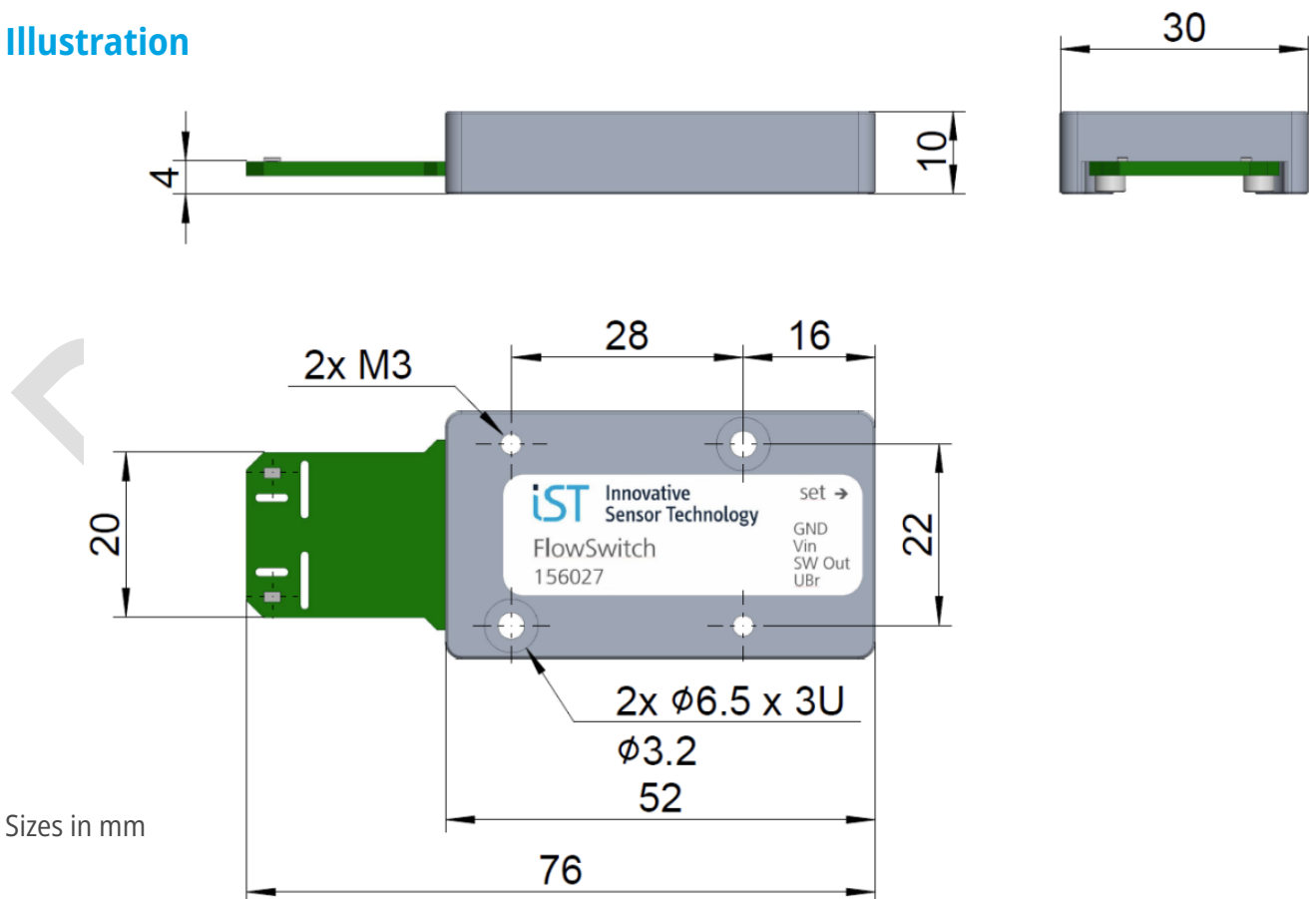
- Reliable and reproducible air flow detection
- Thermal anemometric principle without moving parts
- Switched ground output, suitable for alarm or direct control purposes
- Compact, flat design for easy integration
- Long and reliable operation
- Threshold adjustable



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: 0.1 – 15 m/s

Resolution range influenced by assembly position



Response time: < 3 s

(23 °C, atmospheric pressure and 5 m/sec)



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

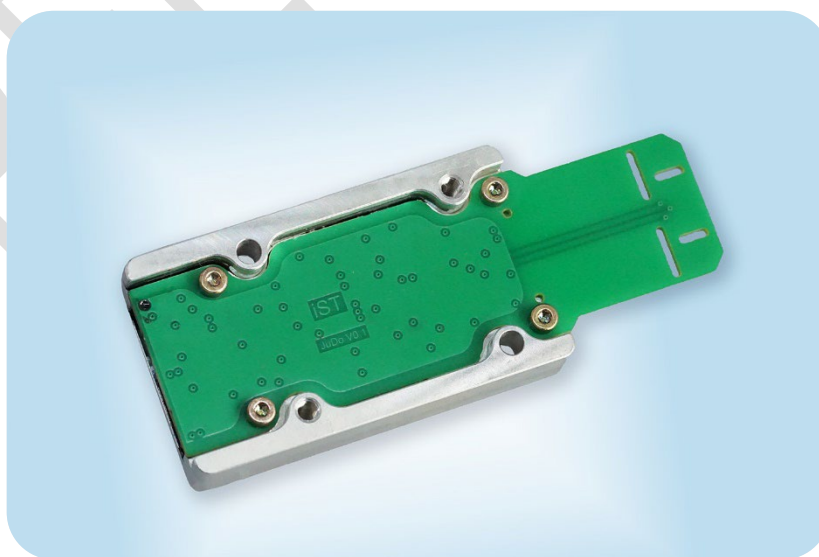
Dimensions (L x W x H): 30 x 76 x 10 mm

Weight: 30 g

Supply voltage (DC): 18 ... 28 V

Power consumption: 2.5 W

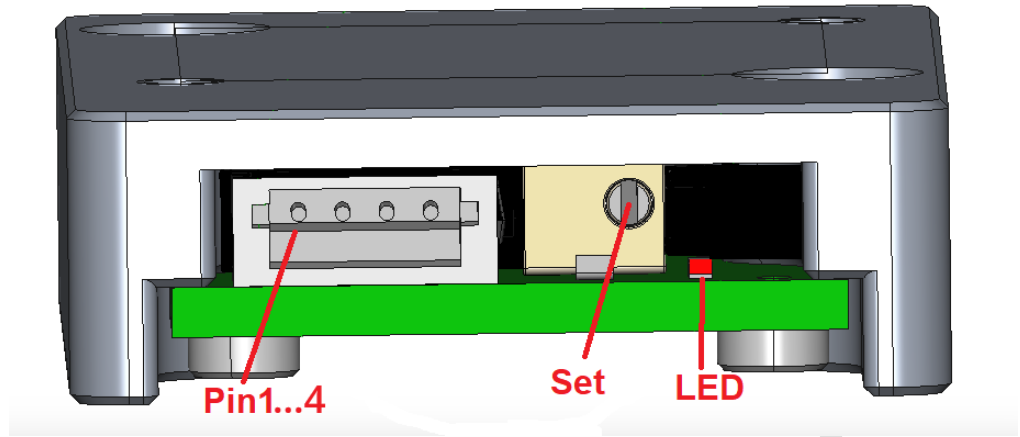
Connector: S4B-ZR-SM4A-TF / JST



Flow Switch Module rear view



Pin assignment



Pin 1

U analog

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)

Pin 2

SW Out

Switched ground signal
Closed = Flowrate above threshold detected

Red LED diode on indicates closed state (Flowrate > threshold)

Pin 3

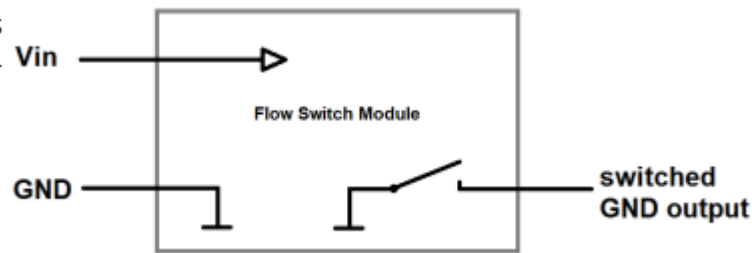
Vin

Power supply for the module

Pin 4

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

Product name

Flow switch module V1.0

Order code

156027



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