

High-accuracy Sensing with a Thin, Compact Body.

- A thin, lightweight flow sensor.
- Unique flow path structure provides high precision and fast response.

RoHS Compliant

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Refer to the Common Precautions for the D6F Series on page 40.

Ordering Information

MEMS Flow Sensor

Applicable fluid	Flow rate range	Model	
Air	0 to 3 L/min	D6F-03A3-000	

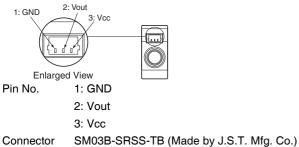
Accessory (Sold separately)

Туре	Model		
Cable	D6F-CABLE2		
Cable	D6F-CABLE2-L		

Note: Refer to Accessories for the D6F Series on page 39.

Connections

D6F-03A3-000



Use the following connectors made by J.S.T. Mfg. Co. for connections to the Sensor:

- Pressure-welded Connector Socket: 03SR-3S
 - Wires: AWG30

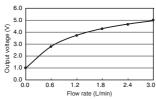
Or

- Crimp Connector Contacts: SSH-003T-P0.2 Housing: SHR-03V-S or SHR-03V-S-B
 - Wires: AWG32 to AWG28



Output Voltage Characteristics

D6F-03A3-000



D6F-03A3-000

Flow rate L/min (normal)	0	0.6	1.2	1.8	2.4	3.0
Output voltage	1.00	2.83	3.77	4.34	4.72	5.00
V	±0.2	±0.2	±0.2	±0.2	±0.2	±0.2

Measurement conditions: Power supply voltage of 12 \pm 0.1 VDC, ambient temperature of 25 \pm 5°C, and ambient humidity of 35% to 75%.

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Characteristics/Performance

Model	D6F-03A3-000		
Flow Range (See note 1.)	0 to 3 L/min		
Calibration Gas (See note 2.)	Air		
Flow Port Type	M5 thread		
Electrical Connection	Three-pin connector		
Power Supply	10.8 to 26.4 VDC		
Current Consumption	15 mA max. with no load, with a Vcc of 12 to 24 VDC, and at 25°C		
Output Voltage	1 to 5 VDC (non-linear output, load resistance of 10 k Ω)		
Accuracy	±5% FS (25°C characteristic)		
Repeatability (See note 3.)	±0.7% FS		
Output Voltage (Max.)	5.7 VDC (Load resistance: 10 k Ω)		
Output Voltage (Min.)	0 VDC (Load resistance: 10 kΩ)		
Rated Power Supply Voltage	26.4 VDC		
Rated Output Voltage	6 VDC		
Case	PPS		
Degree of Protection	IEC IP40 (Excluding tubing sections.)		
Withstand Pressure	200 kPa		
Pressure Drop (See note 3.)	0.45 kPa		
Operating Temperature (See note 4.)	0 to 50°C		
Operating Humidity (See note 4.)	35% to 85%		
Storage Temperature (See note 4.)	-10 to 60°C		
Storage Humidity (See note 4.)	35% to 85%		
Temperature Characteristics	±5% FS for 25°C characteristic at an ambient temperature of 0 to 50°C		
Insulation Resistance	Between Sensor outer cover and lead terminals: 20 M Ω min. (at 500 VDC)		
Dielectric Strength	Between Sensor outer cover and lead terminals: 500 VAC, 50/60 Hz min. for 1 min (leakage current: 1 mA max.)		
Weight	5.3 g		

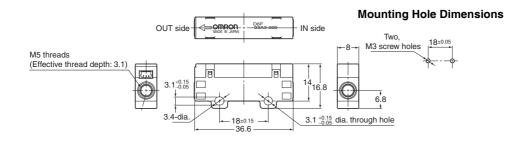
Note: 1. Volumetric flow rate at 0°C, 101.3 kPa.

Note: 2. Dry gas. (must not contain large particles, e.g., dust, oil, or mist.)

Note: 3. Reference (typical) Note: 4. With no condensation or icing.

Dimensions (Unit: mm)

MEMS Flow Sensors D6F-03A3-000



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