OMRON MEMS Flow Sensor

Includes an MEMS Flow Element. High-accuracy Sensing Even for Shiny Bodies.

- The industry's thinnest and lightest flow sensor (See note.), with a MEMS flow chip.
- Unique flow path structure provides high precision and fast response.

Note: According to OMRON investigation as of January 2006.

RoHS Compliant

Ordering Information

Sensor

Flow rate	Model number	Minimum order
0 to 3 L/min	D6F-03A3-000	1

Cable (Order Separately)

Contacts	Wires	Housing	Model number
SSH-003T-P0.2	AWG 28	SHR-03V-03	D6F-CABLE2

Absolute Maximum Ratings

Item	Symbol	Rating	Unit
Power supply voltage	Vcc	26.4	VDC
Output voltage	Vout	5.7	VDC

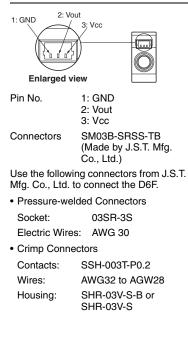
Performance

Item	Model number	D6F-03A3-000
Flow rate		0 to 3 L/min (normal) (See note.)
Case material		Thermoplastic resin
Operat- ing con- ditions	Applicable fluid	Air (The fluid must be clean, dry gas, with no dust or oil mist.)
	Operating temperature	0 to 50°C (with no condensation or icing)
	Operating humidity	85% max. (with no condensation or icing)
	Storage temperature	-10 to 60° C (with no condensation or icing)
	Storage hu- midity	85% max. (with no condensation or icing)
Power supply voltage		10.8 to 26.4 VDC
Output signal		Analog output: 1 to 5 VDC
		Load resistance: 10 k Ω min. (non-linear output)
Current consumption		Without load: Vcc = 12 to 24 VDC, Vss = 0 V, 25° C, 15 mA max.
Insulation resistance		Between Sensor outer cover and lead terminals: 20 $M\Omega$ min. (at 500 VDC)
Withstand voltage		Between Sensor outer cover and lead terminals: 500 VAC, 50/ 60 Hz for 1 min (leakage current: 1 mA max.)

Note: "L/min (normal)" is the volume flow rate at 0°C and 101.3 kPa.



Connections



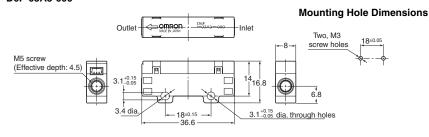
D6F-03A3

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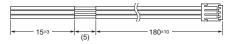
Dimensions

(Unit: mm)

Sensor D6F-03A3-000



Cable (Order Separately) D6F-CABLE2



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. A181-E1-01 In the interest of product improvement, specifications are subject to change without notice. **OMRON Corporation** Electronic Components Company

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