MEMS Flow Sensor **D6F-01/02/05**

High Accuracy Mass Flow Sensing

- Small size
- Fast response
- Applicable to air, non-corrosive gas, natural gas
- Applications include: medical respiratory equipment, analysis apparatus, combustion control



Ordering Information

Case	Gas	Flow range	Notes	Model
PPS	Air*	0-1L/min	Integral orifice	D6F-01A1-110
		0-2L/min		D6F-02A1-110
Aluminum	LNG* (13A)	0-5L/min	_	D6F-05N2-000

Ratings

■ Absolute Maximum Rating

Item	Symbol	Rating	Unit
Power supply	V _{cc}	26.4	VDC
Output voltage	V _{OUT}	6	VDC

■ Recommendation Condition

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Power supply	V _{cc}	_	10.8	_	26.4	VDC
Operating temperature	T _{ORR}	_	-10	_	60	°C
Output voltage (max.)	V _{OH}	$V_{\rm CC}$ = 12 to 24 VDC $I_{\rm OH}$ = 5 mA	5	_	5.7	VDC
Output voltage (min.)	V _{OL}	V_{CC} = 12 to 24 VDC I_{OH} = 5mA	0	_	1	VDC

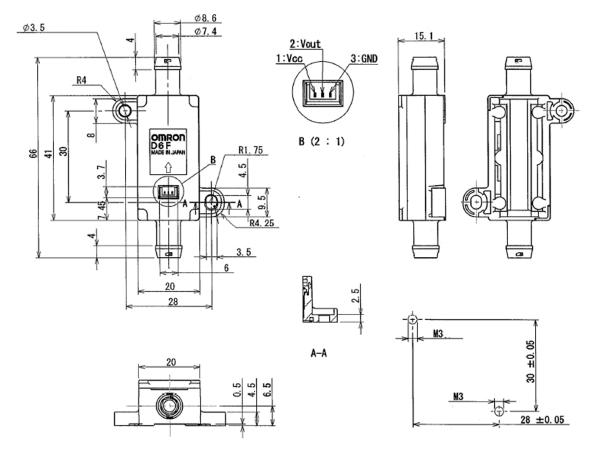
Characteristics

Model	D6F-01A1-110	D6F-02A1-110	D6F-05N2-000	
Rated quality range	0-1L/min	0-5L/min		
Joint type	Press-fit type (Press-fit min. externa external diameter: 8.6 mm) (passag	Rc 1/4 screw		
Case material	PPS		Aluminum	
Applicable gas	Air*	LNG*		
Withstand pressure	200kPa (about 30 psi)			
Repeat accuracy	±3% F.S. max			
Operating temperature	-10 to 60 degrees (with no icing or condensation)			
Operating humidity	Under 85% RH (with no icing or condensation)			
Storage temperature	-40 to 80 degrees (with no icing or condensation)			
Storage humidity	Under 85% RH (with no ice or no dew)			
Output signal	Analog Output 1-5 VDC			
Current consumption	No-Load V_{CC} = 12 to 24 VDC, V_{SS} = 0V 25 deg. C, max 15 mA			
Insulation resistance	More than 20M Ohm (500 VDC, between lead terminal and case)			
Dielectric strength	500 VAC, 50/60 Hz, for 1 minute. (Leakage current typ <1 mA.) Between the lead terminals and the base			
Orifice	Integral	Not applicable		

Dimensions

Unit: mm

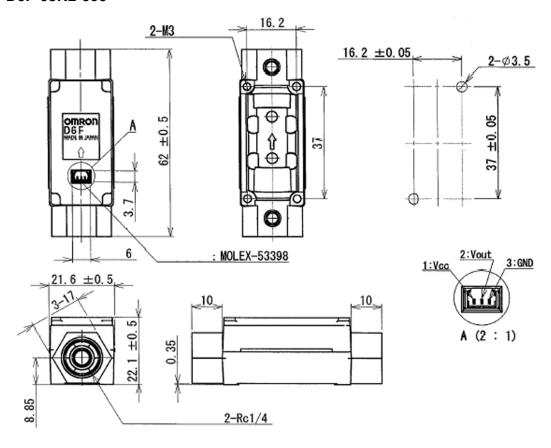
D6F-01A1-110 D6F-02A1-110



Note: Mount using an M3 pan head screw, tightened to 0.59 N•m max. torque.

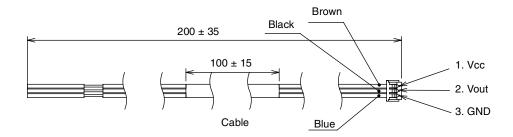
Unit: mm

D6F-05N2-000



Note: Mount using an M3 pan head screw, tightened to 0.59 N•m max. torque.

Applicable Cable for D6F



Housing: Molex - 51021 Terminal: Molex - 50079

Wire: 26-28 AWG

Omron Electronic Components, LLC

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- Definitions: The words used herein are defined as follows:
 - Terms: These terms and conditions
 - Seller: Omron Electronic Components LLC and its subsidiaries
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 - Including without limitation Including:
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