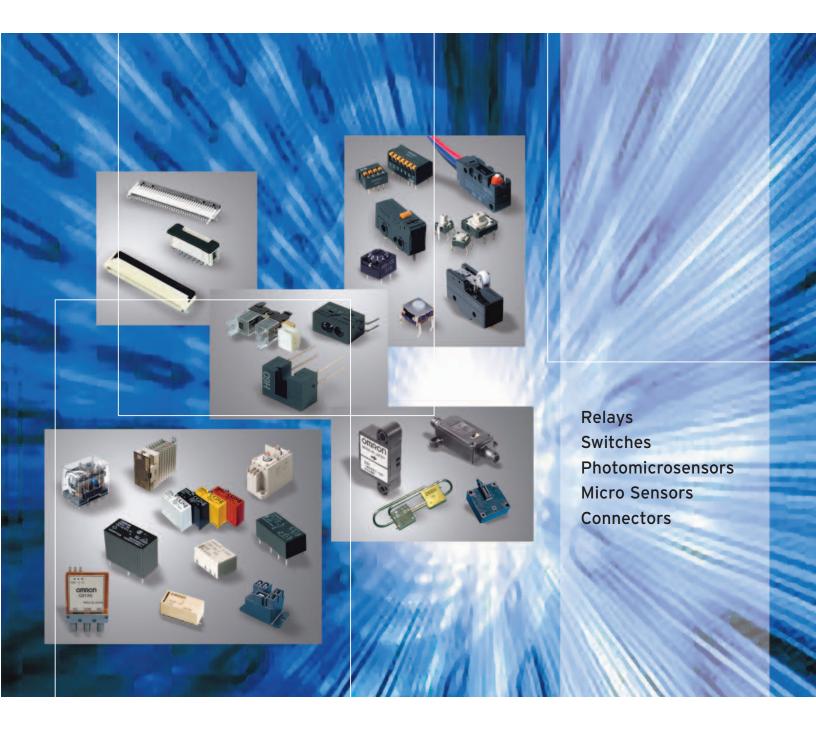
Electronic Components Master Selection Guide





Micro Sensors - MEMS

Mass Air Flow 1~5L



	D6F			
Dimensions mm (in) Features	15H x 20D x 66W (0.60 x 0.79 x 2.60) Detects – • Breath rate in respiratory equipment • Natural gas flow rate • Gas in fuel cells • Flow in ventilation systems			
Applicable second	Air No	tural a		
Applicable gases	Air, Natural gas, LP gas, O_2 , and N_2O^*			
Supply voltage	12 to 24VDC			
Operating temp. range	-10° to +60°C			
Ordering information	Case	Gas	Flow range	Part number
-	PPS	Air	0~1L/min	D6F-101A-110
	PPS	Air	0~2L/min	D6F-102A-110
	AL	LNG	0~5L/min	D6F-05N2-000

*Contact Omron regarding other gases.

Mass Air Flow 10~50L



Features
Applicable gases
Supply voltage
Operating town range
Operating temp. range

D6F-10/20/50

(in) res	30H x 30D x 78 (1.18 x 1.18 x 3	-			
	Precision unidirectional mass airflow up to 50LPM Stable output				
	Horizontal mounting with NBR '0' ring Low power consumption				
ses	Air, Natural gas, LP gas, O ₂ , & N ₂ O*				
age	12 to 24VDC				
ıge	-10° to +60°C				
ion	Flow range 0-10LPM 0-20LPM	Part number D6F10A600 D6F20A600			
	0-50LPM	D6F50A600			

*Contact Omron regarding other gases.

Air Velocity Sensor

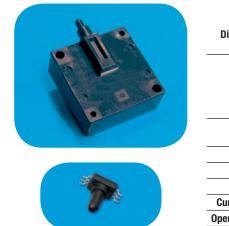
		D6F-W	D6F-V
Dome Of	Dimensions mm (in)	9H x 20Dx 39L (0.35 x 0.79 x 1.53	8H x 13D x 24L (0.31 x 0.51 x 0.94)
	Features	Clogged filter detection Compact size Integral passive Dust Segregation	Value engineered version of D6F-W Smaller package Lower Supply Voltage
and the second s		System (DSS) • Fast fit for easy installation	 Built for OEM designs Internal passive Dust Segregation System (DSS)
	Applicable gases	Air*	Air*
	Supply voltage	12 - 24VDC	3.3VDC
	Output voltage	5VDC	0 to 2VDC
-	Operating temp. range	-10° to +60°C	-10° to +60°C
	Ordering information	Flow rangePart number0~1 m/sec flow rangeD6F-W01A0~4 m/sec flow rangeD6F-W04A	Flow rangePart number0~3 m/sec flow rangeD6F-V03A1

*Contact Omron regarding other gases.

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Micro Sensors - MEMS

Pressure / Blood Pressure

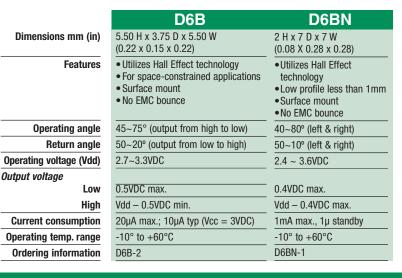




D6BN

	D8M-R	Blood Pressure 2SMCP-10	
Dimensions mm (in)	30 H x 25.8 D x 30 W (1.18 x 1.02 x 1.18)	6.2 x 4.8 x 8.3 (0.27 x 0.21 x 0.37)	
Features	Solid state MEMS pressure sensor with frequency output	 For applications using a minimum of 100,000 pieces per year only For pulse rate detection Electrostatic capacity style suitable for microcomputer input 	
Applicable gases	Air, please inquire about other gases.	Air	
Pressure range	0 - 0.78" of H ₂ 0	0-280mm Hg (600mm Hg max.)	
Output	80 – 300kHz (1kHz/9.81 Pa)		
Supply voltage	4.2 – 5.5VDC	5VDC	
Current consumption	10 mA max.		
perating temp. range	-20° to +70°C	0° to +50°C	

Tilt



Shock/ Vibration/Tilt

	D7E
Dimensions mm (in)	23.1 H x 23.6 D x 36.4 W (0.91 x 0.93 x 1.43)
Features	Compact tilt sensor Responds to gradual tilting of 1degree/sec Self-resetting Quick-connect terminals
	PCB version available (D7A)
Return angle (reset)	50~80° 25° or more
Contact capacity	0.1mA @ 5VDC to 100mA at 30VDC resistive load
Contact form	SPST-NC
Operating temp. range	-25° to +60°C
Service life	5000 operations min.
	Features Operating angle Return angle (reset) Contact capacity Contact form Operating temp. range



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- (ii) Use in consumer products or any use in significant quantities.
- Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.

(iv) Systems, machines, and equipment that could present a risk to life or property. NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE END PRODUCT AS A WHOLE HAS BEEN DESIGNED TO ADDRESS RELEVANT RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR ITS INTENDED USE.

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