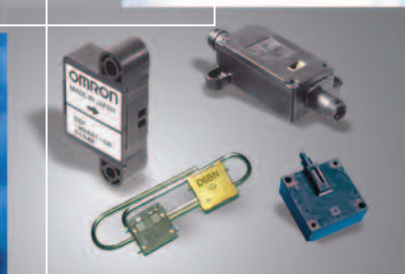
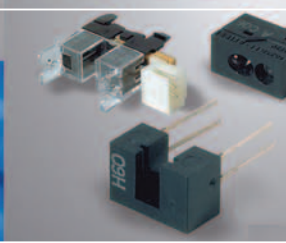


Electronic Components

Master Selection Guide



Relays

Switches

Photomicrosensors

Micro Sensors

Connectors

Micro Sensors - MEMS

Mass Air Flow 1~5L



Dimensions mm (in)	15H x 20D x 66W (0.60 x 0.79 x 2.60)																
Features	Detects – • Breath rate in respiratory equipment • Natural gas flow rate • Gas in fuel cells • Flow in ventilation systems																
Applicable gases	Air, Natural gas, LP gas, O ₂ , and N ₂ O *																
Supply voltage	12 to 24VDC																
Operating temp. range	-10° to +60°C																
Ordering information	<table><tr><th>Case</th><th>Gas</th><th>Flow range</th><th>Part number</th></tr><tr><td>PPS</td><td>Air</td><td>0~1L/min</td><td>D6F-101A-110</td></tr><tr><td>PPS</td><td>Air</td><td>0~2L/min</td><td>D6F-102A-110</td></tr><tr><td>AL</td><td>LNG</td><td>0~5L/min</td><td>D6F-05N2-000</td></tr></table>	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
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



D6F-10/20/50									
Dimensions mm (in)	30H x 30D x 78L (1.18 x 1.18 x 3.07)								
Features	- Precision unidirectional mass airflow up to 50LPM - Stable output - Horizontal mounting with NBR 'O' ring - Low power consumption								
Applicable gases	Air, Natural gas, LP gas, O ₂ , & N ₂ O*								
Supply voltage	12 to 24VDC								
Operating temp. range	-10° to +60°C								
Ordering information	<table> <tr> <th>Flow range</th><th>Part number</th></tr> <tr> <td>0-10LPM</td><td>D6F10A600</td></tr> <tr> <td>0-20LPM</td><td>D6F20A600</td></tr> <tr> <td>0-50LPM</td><td>D6F50A600</td></tr> </table>	Flow range	Part number	0-10LPM	D6F10A600	0-20LPM	D6F20A600	0-50LPM	D6F50A600
Flow range	Part number								
0-10LPM	D6F10A600								
0-20LPM	D6F20A600								
0-50LPM	D6F50A600								

*Contact Omron regarding other gases.

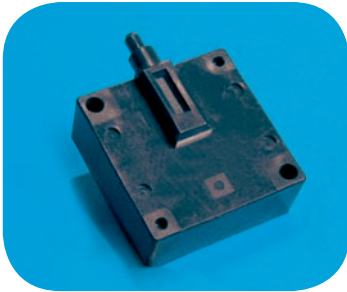
Air Velocity Sensor



	D6F-W	D6F-V
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 System (DSS) • Fast fit for easy installation	• Value engineered version of D6F-W • Smaller package • Lower Supply Voltage • 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 number 0~1 m/sec flow rangeD6F-W01A 0~4 m/sec flow rangeD6F-W04A	Flow rangePart number 0~3 m/sec flow rangeD6F-V03A1

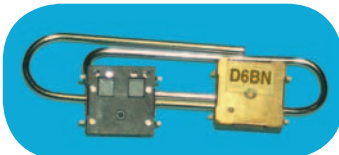
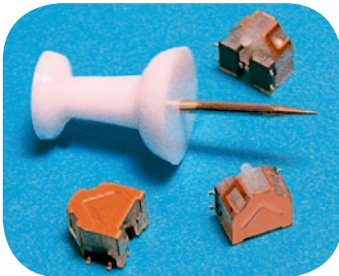
*Contact Omron regarding other gases.

Pressure / Blood Pressure



	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 O	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.	-
Operating temp. range	-20° to +70°C	0° to +50°C

Tilt

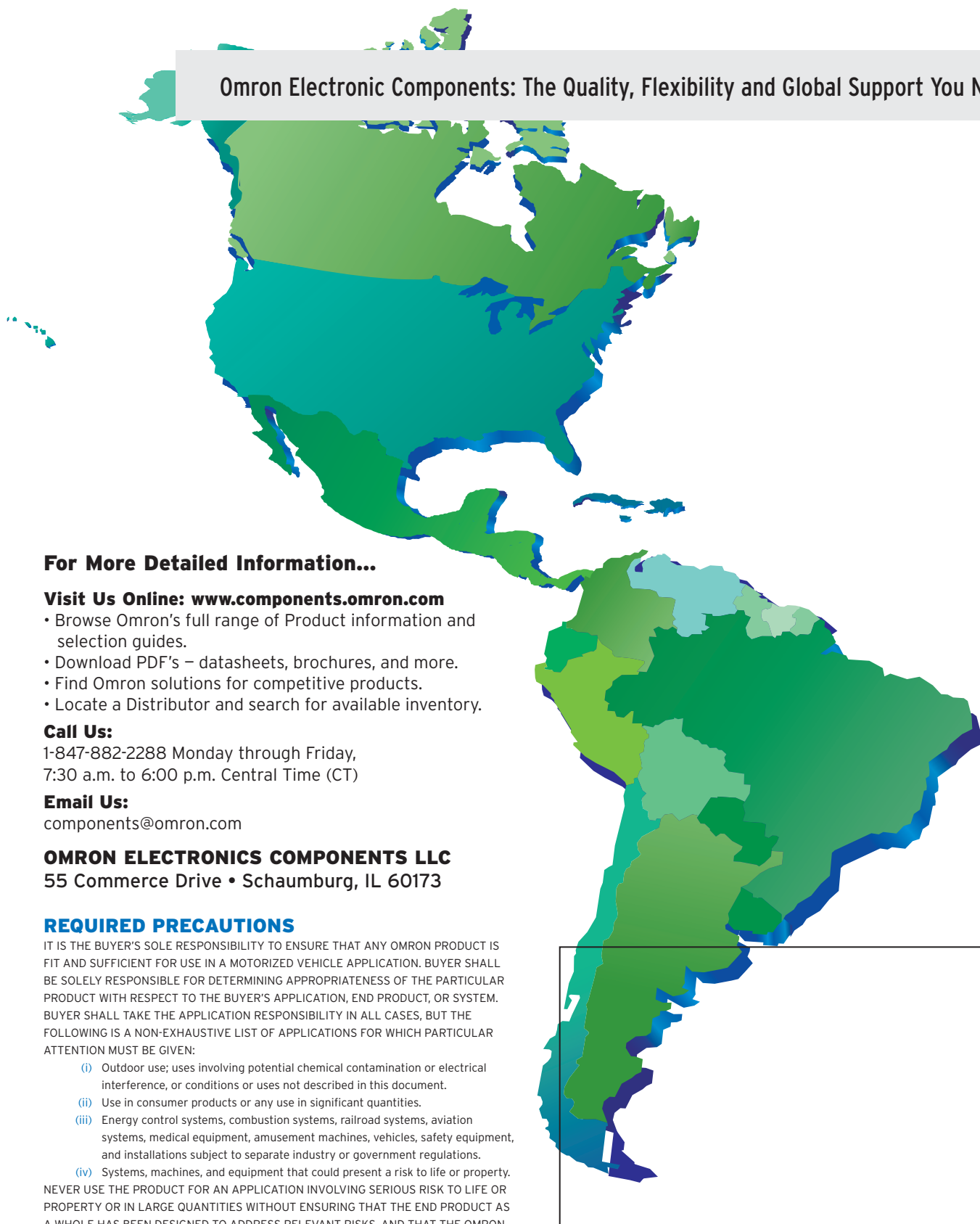


	D6B	D6BN
Dimensions mm (in)	5.50 H x 3.75 D x 5.50 W (0.22 x 0.15 x 0.22)	2 H x 7 D x 7 W (0.08 X 0.28 x 0.28)
Features	• Utilizes Hall Effect technology • For space-constrained applications • Surface mount • No EMC bounce	• Utilizes Hall Effect technology • Low profile less than 1mm • Surface mount • No EMC bounce
Operating angle	45~75° (output from high to low)	40~80° (left & right)
Return angle	50~20° (output from low to high)	50~10° (left & right)
Operating voltage (Vdd)	2.7~3.3VDC	2.4 ~ 3.6VDC
Output voltage		
Low	0.5VDC max.	0.4VDC max.
High	Vdd - 0.5VDC min.	Vdd - 0.4VDC max.
Current consumption	20µA max.; 10µA typ (Vcc = 3VDC)	1mA max., 1µ standby
Operating temp. range	-10° to +60°C	-10° to +60°C
Ordering information	D6B-2	D6BN-1

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)
Operating angle	50~80°
Return angle (reset)	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.



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