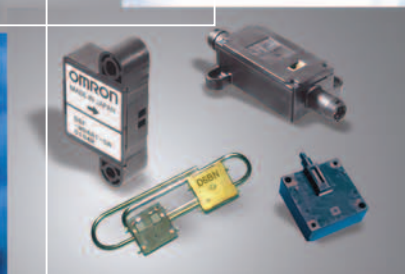
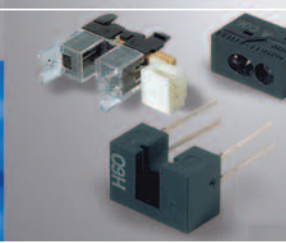


Electronic Components

Master Selection Guide



Relays

Switches

Photomicrosensors

Micro Sensors

Connectors

Micro Sensors - MEMS

Mass Air Flow 1~5L



Dimensions mm (in)

Features

Applicable gases

Supply voltage

Operating temp. range

Ordering information

D6F

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

Air, Natural gas, LP gas, O₂, and N₂O *

12 to 24VDC

-10° to +60°C

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



Dimensions mm (in)

Features

Applicable gases

Supply voltage

Operating temp. range

Ordering information

D6F-10/20/50

30H x 30D x 78L
(1.18 x 1.18 x 3.07)

- Precision unidirectional mass airflow up to 50LPM
- Stable output
- Horizontal mounting with NBR 'O' ring
- Low power consumption

Air, Natural gas, LP gas, O₂, & N₂O*

12 to 24VDC

-10° to +60°C

Flow range	Part number
0-10LPM	D6F10A600
0-20LPM	D6F20A600
0-50LPM	D6F50A600

*Contact Omron regarding other gases.

Air Velocity Sensor



Dimensions mm (in)

Features

Applicable gases

Supply voltage

Output voltage

Operating temp. range

Ordering information

D6F-W

9H x 20Dx 39L
(0.35 x 0.79 x 1.53)

- Clogged filter detection
- Compact size
- Integral passive Dust Segregation System (DSS)
- Fast fit for easy installation

Air*

12 - 24VDC

5VDC

-10° to +60°C

Flow range	Part number
0~1 m/sec flow range	D6F-W01A
0~4 m/sec flow range	D6F-W04A

D6F-V

8H x 13D x 24L
(0.31 x 0.51 x 0.94)

- Value engineered version of D6F-W
- Smaller package
- Lower Supply Voltage
- Built for OEM designs
- Internal passive Dust Segregation System (DSS)

Air*

3.3VDC

0 to 2VDC

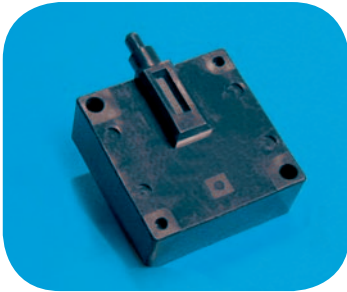
-10° to +60°C

Flow range	Part number
0~3 m/sec flow range	D6F-V03A1

*Contact Omron regarding other gases.

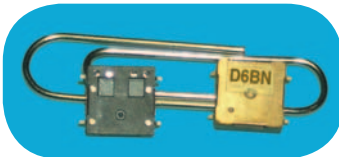
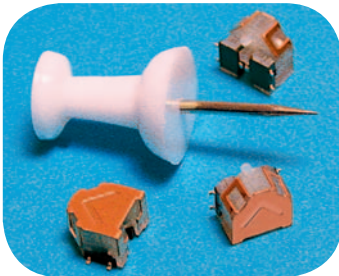
Micro Sensors - MEMS

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

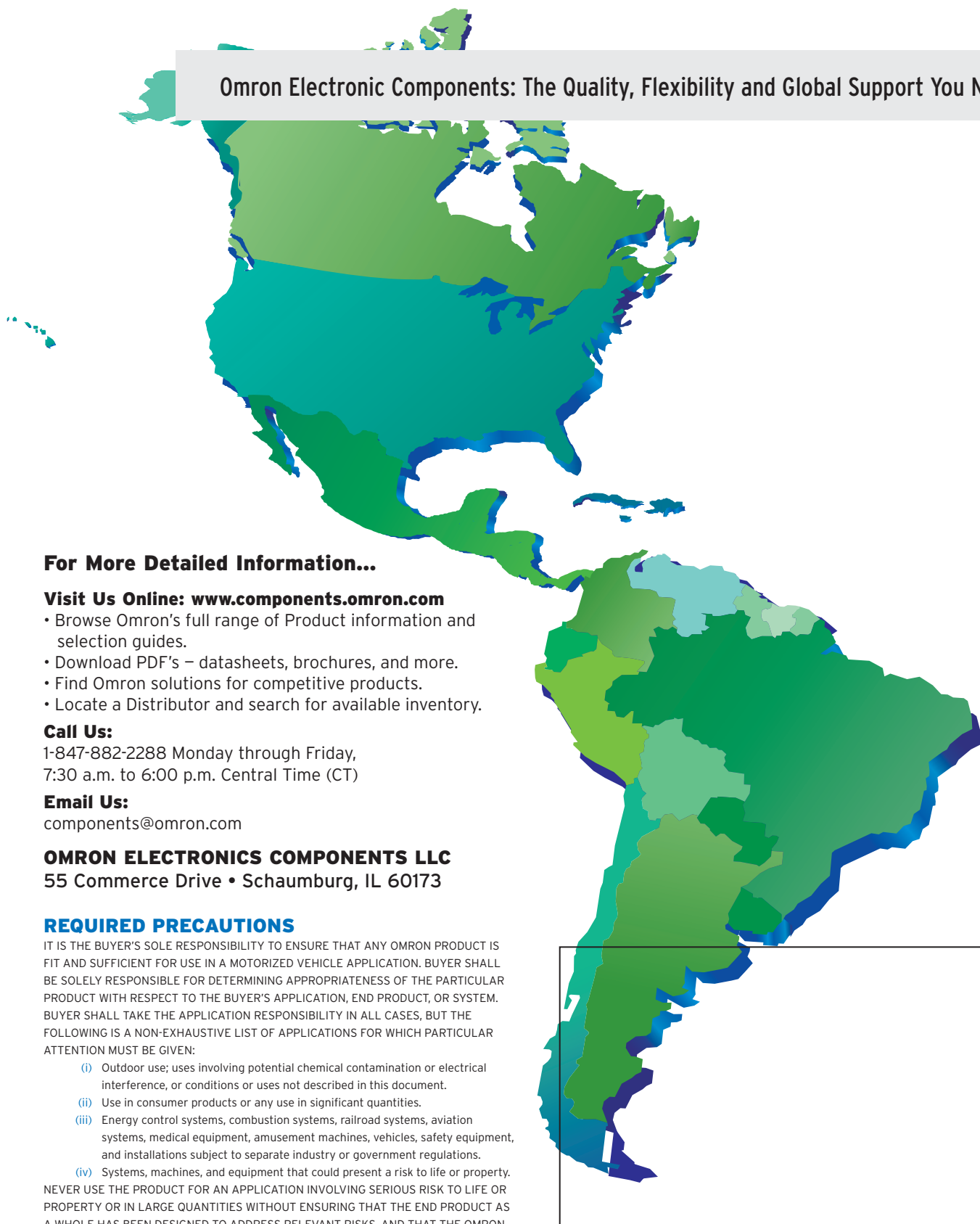


	D6B	D6BN
Dimensions mm (in)	5.50 H x 3.75 D x 5.50 W (0.22 x 0.15 x 0.22)	2 H x 7 D x 7 W (0.08 X 0.28 x 0.28)
Features	• Utilizes Hall Effect technology • For space-constrained applications • Surface mount • No EMC bounce	• Utilizes Hall Effect technology • Low profile less than 1mm • Surface mount • 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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