

Component Sensors

OMRON D6A SERIES CLOGGED AIR FILTER SENSOR

ELECTRONIC COMPONENTS

Specifications:

- Method of detection: Wind velocity
- Wind velocity range: 0.5 to 1.5m/sec
- Current consumption: 60mA or less
- Max. output voltage: 5.2 V or less

Features:

- Detect clogged fan filters to prevent overheating of equipment
- Wide operating range of 0° to 45° C (do not freeze)
- Low current consumption

Applications:

- Computer servers, routers, and network devices
- Cash registers
- Uninterruptible power supplies

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Operating Voltage	Wind Velocity Range	Output Range	Price Each		
						1	5	10
653-D6A-N	D6A-N	A	12 VDC	0.5 to 1.5m/sec	0.2 - 5 VDC @ 1.5m/sec	65.45	63.53	61.60

OMRON D6B SERIES: SURFACE MOUNTING MICRO TILT SENSOR

ELECTRONIC COMPONENTS

Specifications:

- Detect tilting over a range of 45-75° in right-and-left inclination.
- Return Angle: 60-30°
- Output Rating: 0.5VDC
- The D6B features two switched outputs, left and right, which both remain high (Vmax 0.5V) when the device is in a neutral position. Once the device is tilted beyond operational angle of 35 to 65°, the relevant output switches to a low (0.5V) output.

Applications:

- Ideal for applications such as PDAs, digital cameras, cell phones, and test equipment.
- Well-suited for use in head-tilt control devices for people with diminished hand mobility.
- May also be used to replace mercury switches in game machines, such as pinball machines and portable space heaters.



RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Operating Voltage	Operation Angle	Price Each				Reel Quantity	Reel Qty Price Each
					1	10	25	50		
653-D6B-2	D6B-2	B	2.7-3.3 VDC	45-75°	9.75	8.47	7.00	6.30	2000	3.31

OMRON D6F SERIES: MEMS FLOW SENSORS

ELECTRONIC COMPONENTS

World's Smallest Flow Sensor Elements!

The exceptional performance of the D6F is achieved using the world's smallest, supersensitive flow sensor elements with an area of just 1.5mm sq., achieving a size of just 1/7th that of other flow sensors in the same class. The D6F is suitable for gas flows of up to 10m/s from any direction.

Specifications:

- Dielectric strength: 500VAC between terminals and base
- Operating temperature: -10 to 60°C

Features:

- Small size
- Fast response
- Applicable to air, non-corrosive gas, LNG Ideal for looking at low pressure medical gases, boiler emissions, and HVAC system airflow

Applications:

- Medical equipment
- Combustion control
- Analysis instruments

For quantities of 10 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Range	Applicable Fluid	Case Material	Power Supply (Vcc Max)	Output Voltage (Vout Max)	Price Each		
								1	2	5
653-D6F-01A1-110	D6F-01A1-110	C	0-1L/min.	Air	PPS	26.4 VDC	6 VDC	180.00	162.00	159.60
653-D6F-02A1-110	D6F-02A1-110	C	0-2L/min.	Air	PPS	26.4 VDC	6 VDC	180.00	162.00	159.60
653-D6F-05N2-000	D6F-05N2-000	D	0-5L/min.	Liquid Natural Gas	Aluminum	26.4 VDC	6 VDC	270.00	243.00	229.50
653-D6F-10A5-000	D6F-10A5-000	E	0-10L/min.	Air	PPS	26.4 VDC	6 VDC	270.00	243.00	229.50
653-D6F-20A5-000	D6F-20A5-000	E	0-20L/min.	Air	PPS	26.4 VDC	6 VDC	270.00	243.00	229.50
653-D6F-50A5-000	D6F-50A5-000	E	0-50L/min.	Air	PPS	26.4 VDC	6 VDC	270.00	243.00	229.50
653-D6F-CABLE1	D6F-CABLE1	--	Cable for MEMS flow sensor					9.40	8.45	8.00
Clog Sensor										
653-D6F-W01A1	D6F-W01A1	F	1 meter/sec	Air	PPS	10-26.4VDC	1-5 V non-linear	90.00	85.00	80.00
653-D6F-W04A1	D6F-W04A1	F	4 meters/sec	Air	PPS	10-26.4VDC	1-5 V non-linear	90.00	85.00	80.00
653-D6F-WCABLE	D6F-WCABLE	--	Cable for D6F clog sensor					4.28	3.85	3.63

OMRON D7 SERIES VIBRATION SENSORS

ELECTRONIC COMPONENTS

Features:

- Quick detection of movements that could cause damage to equipment
- D7A/D7E - Auto-resettable - no manual setting required
- D7H - Stainless steel diaphragm; manually resettable

Applications:

- Industrial equipment
- Vending machines
- Any system requiring safety shutoff during a period of vibration or tilting

For quantities of 25 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Detection Sensitivity	Contact Form	Description	Contact Rating	Price Each		
							1	5	10
653-D7A-1	D7A-1	G	90-170gal	SPST-NO	Horizontal PCB mount	5mA @ 3VDC - 1mA @ 3VDC	29.49	26.32	24.88
653-D7A-2	D7A-2	G	90-170gal	SPST-NO	Vertical PCB mount	5mA @ 3VDC - 1mA @ 3VDC	29.49	26.32	24.88
653-D7A-3	D7A-3	G	90-170gal	SPST-NO	Chassis mount	5mA @ 3VDC - 1mA @ 3VDC	31.32	27.96	26.42
653-D7E-1	D7E-1	H	130-200gal	SPST-NC	Sealed vibration sensor	0.1mA @ 5VDC - 100mA @ 30VDC	8.61	7.69	7.26
653-D7E-2	D7E-2	H	100-170gal	SPST-NC	Sealed vibration sensor	0.1mA @ 5VDC - 100mA @ 30VDC	4.82	4.30	4.06
653-D7E-3	D7E-3	H	- - -	SPST-NC	Tilt switch, 50-80° detection angle	0.1mA @ 5VDC - 100mA @ 30VDC	8.61	7.69	7.26
653-D7H-A1	D7H-A1	I	100-170gal	SPDT	Enclosed vibration detection sensor	10A @ 125/250 VAC	207.04	184.86	174.69
653-D7H-B1	D7H-B1	J	100-170gal	SPDT	Open vibration detection sensor	10A @ 125/250 VAC	63.51	56.71	53.59
653-D7H-B2	D7H-B2	J	100-170gal	SPDT	Open vibration detection sensor	10A @ 125/250 VAC	63.51	57.71	53.59

ALPS SPSA VIBRATION SENSOR

Specifications:

- Ratings: 1mA @ 5VDC to 100mA @ 30VDC
- Operating life: 5000 cycles

Features:

- Resistant to corrosive gas and humidity
- Sliding contact with high reliability

Applications:

- Combustion equipment and aquarium heaters
- Detection of tampering

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	ALPS Part No.	Fig.	Detection Sensitivity	Contact Form	Vibration Specification	Price Each		
						1	25	50
688-SPSA100100	SPSA100100	K	130 - 200 gal (cm/s ²)	SPST-NC	10-55 Hz, 1.5mm total amplitude	7.48	5.24	4.49

ALPS SPSP VIBRATION/TILT SENSOR

Specifications:

- Reflow solderable
- Packaged on tape and reel

Features:

- Detects tilt movement in 4 directions
- Can be mounted on either side of the board

Applications:

- Detection of vertical/horizontal in handheld devices
- Detection of posture and movement of toy or robot

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	ALPS Part No.	Fig.	Detection Angle	Contact Rating	Dimensions (LxWxH)	Price Each		
						1	25	50
688-SPSP100100	SPSP100100	L	50°± 20°	1mA @ 5VDC	6.2mm X 6.2mm X 3.4mm	2.92	2.04	1.75

NIKKI DS SERIES - CONTACTLESS TILT SWITCH

ELECTRONIC COMPONENTS

Specifications:

- Operating Angle: ±30° to ±60°
- Return Angle: 10° min.

Features:

- Photo interrupter ensures high reliability
- Sealed Construction
- UL94V-0

For quantities of 100 and up, call for quote.

MOUSER STOCK NO.	NIKKI Part No.	Fig.	Description	Price Each		
				1	25	50
633-DS-BA1P	DSBA1P	M	On-Off Status, NC, Straight PC	4.75	4.31	3.92
633-DS-BA1H	DSBA1H	N	On-Off Status, NC, Right Angle PC	4.75	4.31	3.92

DIMENSIONS (mm)

A

B

C

D

E

F

G

H

I

J

K

L

M

N

Sensors

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