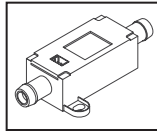




D6F Gas Flow Sensors



The D6F is a new supersensitive gas flow sensor. It is able to measure both gas velocity and direction at extremely low flow rates, and is ideal for looking at low pressure medical gases, boiler emissions, and HVAC system airflow. It is suitable for measuring the amount of oxygen and nitrogen dioxide, consumed from a respiratory apparatus in surgery. It can also be used for monitoring air circulation in a building and thus improving the performance and efficiency of air conditioning and building comfort systems. The extreme sensitivity is achieved with a tiny heating element, associated with temperature sensors on both sides. The deviation is temperature measured by the two sensors and used to calculate the gas flow and direction, generating a non-linear analogue output in the range of 1V – 5V.

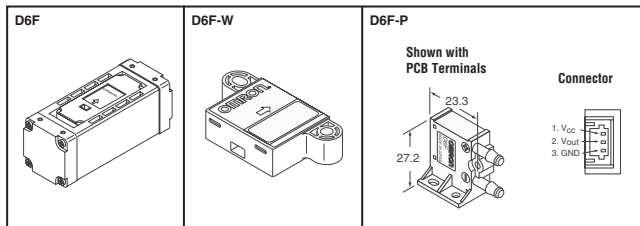
Case Material	Suitable Gas	Flow Range	Digi-Key Part No.	Price Each			Omron Part No.	
				1	25	50		
PPS	Air	0-1Liter/minute	Z1671-ND	143.21	128.90	114.58	D6F-01A1-110	
PPS	Air	0-2Liter/minute	Z1672-ND	143.21	128.90	114.58	D6F-02A1-110	
Aluminum	LNG*	0-5Liter/minute	Z1673-ND†	173.62	156.27	138.90	D6F-05N2-000	
PPS	Air	0-3Liter/minute	Z2717-ND	225.48	202.94	180.39	D6F-03A3-0000	
Connector with 2M Cable for D6F Sensors				Z2718-ND	8.43	7.59	6.75	D6F-CABLE2

* Liquid Natural Gas † D6F-05 is a 1/4" pipe thread version using British Taper (Rc) standard.

D6F Air Flow Sensors



Omron's mass flow sensor will detect flows of 1 – 10 liters per minute up to a 1 – 50 liter per minute version. They use a wide supply voltage range of 5 – 26.4VDC and will output an analog voltage of 0.5 – 5VDC. Perfect for medical apparatus, fuel cell monitoring and measuring instruments.

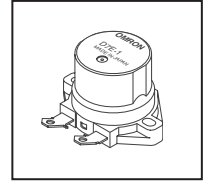


Description	Digi-Key Part No.	Price Each			Omron Part No.
		1	25	50	
Flow Sensor 0 – 10 Liters per minute, Straight Connect	Z2863-ND	265.99	239.39	212.79	D6F-10A6-000
Flow Sensor 0 – 20 Liters per minute	Z2864-ND	265.99	239.39	212.79	D6F-20A6-000
Flow Sensor 0 – 50 Liters per minute	Z2865-ND	265.99	239.39	212.79	D6F-50A6-000
Dustproof Flow Sensor 0-1 Liter, PCB	Z2785-ND	52.05	46.85	41.65	D6F-P0010A1
Dustproof Flow Sensor 0-1 Liter, Connector	Z2786-ND	52.05	46.85	41.65	D6F-P0010A2
Flow Sensor 0 – 1 Meters per second	Z2631-ND	86.69	78.03	69.36	D6F-W01A1
Flow Sensor 0 – 4 Meters per second	Z2632-ND	86.69	78.03	69.36	D6F-W04A1
Flow Sensor 0 – 3 Meters per second	Z2629-ND	33.82	30.45	27.06	D6F-V03A1
Cable for Air Flow Sensors	Z2209-ND	8.43	7.59	6.75	D6F-CABLE1
Cable for Air Flow Sensors (D6F-W)	Z2630-ND	4.23	3.81	3.39	D6F-W CABLE

D7E Vibration Sensors



These vibration sensors are perfect for quick detection of movements that could cause damage to equipment or can be used to safely shut down critical operations. Sensors are auto-resettable and require no manual resetting. D7E vibration sensors are low cost sealed vibration sensors with various sensitivities. Use these sensors for industrial equipment, cranes, forklifts, industrial manufacturing and boilers. Use in natural gas meter shutoffs, vending machines, conveyor systems, earthquake sensors or any circuits that require safety shutoff during a period of vibration or tilting.



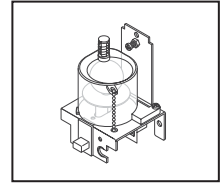
Specifications: • Various sensitivities • Contact Capacity: 100mA@5-30VDC • Contact Form: SPST-NC • Operating Temperature: -25°C – 60°C • Dielectric Strength: AC250V 50/60Hz

Description	Digi-Key Part No.	Price Each			Omron Part No.
		1	25	50	
130 – 200 gallon Vibration Switch, 0.1A	Z2007-ND	9.91	8.93	7.94	D7E-1
100 – 170 gallon Vibration Switch, 0.1A	Z2008-ND	9.91	8.93	7.94	D7E-2
50 – 80° Tilt Switch, 0.1A	Z2009-ND	14.47	13.02	11.57	D7E-3

D7H Equipment Vibration Sensors



These vibration switches feature a highly durable stainless steel diaphragm that allows detection of very small movements. Used to prevent secondary damage after earthquakes and to replace mercury with a simple mechanical system. Manually resettable, vertically mounted sensor in either an enclosed case or open sensor.



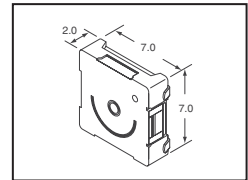
Specifications: • 100 – 170 gallon, 10A 125VAC, 0.1A 30VDC • Operating Temperature: -10°C – 70°C

Description	Digi-Key Part No.	Price Each			Omron Part No.
		1	25	50	
Open Cased Vibration Detection Switch - 10A	Z2011-ND	74.55	67.10	59.64	D7H-B1

D6BN Tilt Sensors



Ideal for equipment tilt detection. Will give you a separate output when tilted left or right. Perfect for signaling a screen to rotate from portrait to landscape view in keeping with product orientation. Can be used in space heaters.



Specifications: • Output Current: 1mA • Operating Temperature: -10°C – 60°C

Characteristics: • Supply Voltage: 2.4V – 3.6V • Output High Voltage: Vdd – 0.4V minimum • Output Low Voltage: 0.4V maximum • Current Consumption: 10µA maximum • Operating Angle: 40°C – 80°C

Description	Digi-Key Part No.	Cut Tape Price Each			Omron Part No.
		1	25	50	
Mini SMD Tilt Sensor - Left/Right	Z2676CT-ND	3.73	3.36	2.98	D6BN-IP
Mini SMD Tilt Sensor - Left/Right	Z2676TR-ND‡	4653.26/2,500			D6BN-IP

‡ Tape and Reel

Inductive Proximity Sensors

Omron's line of inductive sensors are designed for detecting the presence or absence of ferrous metal close to the sensor and provide an output when detected. Because inductive sensors use electromagnetic fields, they excel over photo type sensors in environments containing water, oil, dust and dirt. Shielded sensors are made with a shielding plate around the ferrite core to focus ferrous metal sensing at the sensors head. It also allows the sensor to be located or mounted close to surrounding metals.

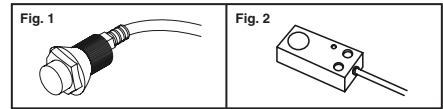


Fig.	Sensing Distance Maximum	Description	Terminal Type	Output Type	Digi-Key Part No.	1	Price Each	50	Omron Part No.	
1	0.8mm	4mm Diameter, Short Barrel DC Proxy, Stainless Steel, Shielded	3-Wire	NPN	Z1651-ND	80.30	74.35	69.40	E2E-CR8C1	
	1mm	M5, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1652-ND	77.88	72.12	67.32	E2E-X1C1	
	1mm	5.4mm Diameter, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1653-ND	80.30	74.35	69.40	E2E-C1C1	
	1.5mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1062-ND	57.01	52.79	49.27	E2E-X1R5E1	
	2mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1064-ND	58.62	54.28	50.66	E2E-X2D1-N	
	2mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1065-ND	57.01	52.79	49.27	E2E-X2E1	
	2mm	M12, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1066-ND	68.25	63.20	58.99	E2E-X2Y1-US	
	3mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1067-ND	59.42	55.02	51.36	E2E-X3D1-N	
	5mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1068-ND	58.62	54.28	50.66	E2E-X5E1	
	5mm	M18, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1069-ND	72.27	66.92	62.46	E2E-X5Y1-US	
	10mm	M30, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1654-ND	62.63	58.00	54.13	E2E-X10E1	
	1.5mm	M8, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1075-ND	88.33	81.79	76.34	E2F-X1R5E1	
	1.5mm	M8, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1076-ND	126.87	117.48	109.64	E2F-X1R5Y1	
	2mm	M12, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1078-ND	73.87	68.41	63.85	E2F-X2E1	
	2mm	M12, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1079-ND	105.72	97.90	91.37	E2F-X2Y1	
	5mm	M18, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1080-ND	81.90	75.84	70.79	E2F-X5E1	
	5mm	M18, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1081-ND	109.05	—	—	E2F-X5Y1-US	
	10mm	M30, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1077-ND◆	96.36	89.22	83.28	E2F-X10E1	
2	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	PNP	Z1082-ND	49.09	45.45	42.42	TL-W1R5MB1	
	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1083-ND	49.09	45.45	42.42	TL-W1R5MC1	
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1084-ND	52.08	48.22	45.01	TL-W3MC1	
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1189-ND	52.08	48.22	45.01	TL-W3MB1	
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1085-ND	44.50	41.21	38.47	TL-W5MB1	
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1086-ND	44.50	41.21	38.47	TL-W5MC1	
	20mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1660-ND	72.95	67.55	63.05	TL-W20ME1	
	Mounting Bracket, Fits M8 Size Sensors						Z1656-ND◆	2.95	2.74	2.56
Mounting Bracket, Fits M18 Size Sensors						Z1658-ND◆	2.95	2.74	2.56	Y92E-B18

◆ RoHS Compliant

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