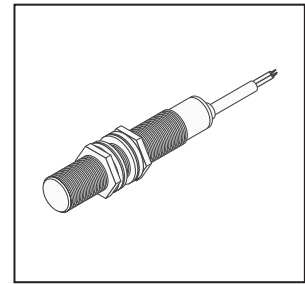


Honeywell

Sensing and Control

NEW! Ultrasonic Sensors

The 943 Series industrial sensors add to our product range of sensors. They have improved scanning ranges, remote teach in of the switching or analog outputs, as well as new advanced features, such as window and hysteresis modes.



Description	Switching Frequency	Output	Digi-Key Part No.	Price Each			Honeywell Part No.
				1	25	50	
943 Series, Software Programmable, 200 - 2000mm scan distance, M18 Plastic Housing	1.2Hz	NPN, 2 NO/NC	480-3007-ND	224.06	185.58	178.70	943-F4Y-2D-002-180E
	250ms	0 - 10V	480-3008-ND	224.06	185.58	178.70	943-F4Y-2D-1C0-180E

ST MEMS Accelerometers



ST offers a portfolio of MEMS-based sensors able to sense acceleration in two or three axis.

The mechanical part of linear accelerometer sensor is based on a silicon inter-digitated structure done by fixed and movable fingers.

To sense the acceleration in each axis, these structures are packaged

in orthogonally groups and the acceleration in each direction is sensed by measuring the change of capacitance between fixed and movable elements correlated to that axis.

The changing of capacitance per axis is then translated into an analog or digital output signal in the interface chip.

The whole process of design and production of sensors is managed by STMicroelectronics.

This guarantees to the customer high volume production, long term security, high precision and reliability since all the devices are tested by Standards and Proprietary Test Systems.

Output	Axis	Acceleration Range (g)	Package	Calibration (V)	Digi-Key Part No.	Price Each			Tape and Reel‡		STMicroelectronics Part No.
						1	10	100	Qty.	Pricing	
Analog	2	±2	16-LGA	3.0	497-6343-ND	6.44	5.88	4.65	—	—	LIS244AL
Analog	2	±2/±6	16-LGA	3.3	497-6344-1-ND NEW!	8.03	7.33	5.80	3,000	4397.40/M	LIS244ALHTR
Analog	3	±2	8-LGA	3.3	497-4917-ND	11.00	10.18	7.70	—	—	LIS3L02AL
Analog	3	±2	14-LGA	3.3	497-6340-ND	7.25	6.62	5.23	—	—	LIS302SG
Analog	3	±3.5	16-LGA	3.0	497-6341-ND	6.48	5.64	4.20	—	—	LIS344AL
Analog	3	±2/±6	16-LGA	3.3	497-6345-1-ND NEW!	9.02	8.24	6.51	3,000	4939.20/M	LIS344ALHTR
Analog	2	±2/±6	24-SOIC	3.3	497-6044-1-ND	8.86	8.09	6.40	1,000	4909.00	LIS2L02AS4-TR
Analog	3	±2	14-LGA	3.3	497-5910-1-ND	6.44	5.88	4.65	5,000	3500.00/M	LIS302ALBTR
Digital	3	±2/±8	14-LGA	3.3	497-5911-1-ND	11.00	10.18	7.70	5,000	6710.00/M	LIS302DLTR
Digital	2	±2/±8	14-LGA	2.16 - 3.6	497-6071-1-ND	8.63	7.88	6.23	5,000	4688.00/M	LIS202DLTR
Digital	3	±2/±6	28-QFPN	2.5	497-6346-1-ND NEW!	13.00	12.03	9.10	2,300	8060.00/M	LIS3LV02DQ-TR
Analog	3	±2/±6	44-QFN	2.4 - 3.6	497-6072-1-ND	11.00	10.18	7.70	2,300	6875.00/M	LIS3L02AQ3TR

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Tools and Evaluation Boards

The Micro Electro Mechanical System is a new technology that exploits the mechanical properties of silicon to integrate mechanical structures sensitive to vibration, displacement, acceleration and rotation. This new technology opened the door to a new generation of compact, cost effective and sensitive sensors. While conventional microelectronics development focuses on incremental improvements of a well-established technology, MEMS challenge the way designers work, compelling them to think

three dimensionally and to acquire a unique blend of multi-disciplinary skills combining electrical, semiconductor and mechanical design.

Features: • Strategic Cost • Low Power Consumption • Low size and weight • High volumes • High reproducibility • High thermal stability by design • High integration with standard IC devices to build Multi Chip Modules (MCM) or smart sensors.



LIS302DL Evaluation Board

MEMS 3-Axis ±2g/±8g, Digital Output Low Power Linear Accelerometer Evaluation Board based on LIS302DL (EK302DL).

497-6229-ND (STEVAL-MKI006V1)..... **\$54.60** 497-6342-ND (STEVAL-MKI013V1)..... **\$45.50**

LIS3L02AL Evaluation Board

MEMS Analog Output Evaluation Board based on LIS3L02AL (EK3L02AL).

497-6230-ND (STEVAL-MKI002V1)..... **\$31.20**

LIS3LV02DL Evaluation Board

MEMS 3-Axis ±2g/±6g, Digital Output Low Voltage Linear Accelerometer. Evaluation Board based on LIS3LV02DL (EK3LV02DL).

497-6226-ND (STEVAL-MKI005V1)..... **\$54.60**

LIS3L06AL Evaluation Board

MEMS Analog Output Evaluation Board based on LIS3L06AL (EK3L06AL).

497-6233-ND (STEVAL-MKI012V1)..... **\$32.50**

LIS3LV02DL Adapter Board

LIS3LV02DL Adapter Board designed to be plugged into a standard DIL 20 socket.

497-6227-ND (STEVAL-MKI009V1)..... **\$24.70**

LIS3LV02DQ Evaluation Board

MEMS 3-Axis ±2g/±6g, Digital Output Low Voltage Linear Accelerometer Evaluation Board based on LIS3LV02DQ.

497-6249-ND (STEVAL-MKI004V1)..... **\$54.60**

Accelerometers for LIS302ALB Adapter Board

MEMS Analog Output Low Power 3-Axis Linear Accelerometer based on LIS302ALB (EK302ALB).

497-6245-ND (STEVAL-MKI007V1)..... **\$32.50**

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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