



# VCNL4035X01 GESTURE SENSOR

LIGHT TO DIGITAL PORTFOLIO

IN A NUTSHELL



**High resolution proximity** sensor with a **12- or 16-bit** option

**Outstanding** sensitivity for object **detection** up to **two feet**



**16-bit** ambient light sensor **resolution**

## COMPETITIVE ADVANTAGE

- Operating temperature range up to 105 °C
- Emitters are discrete versus integrated allowing customer to configure sensing zone
- Temperature compensation to keep output stable over temperature

Drivers for up to **THREE** emitters



**SUPERIOR GESTURE RECOGNITION**



Low profile package: 0.75 mm



**Greater Design Flexibility**

**Upper and lower** thresholds, and interrupt functions



**Excellent** background light **cancellation**

HALOGEN **FREE**

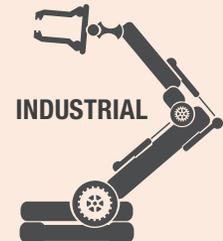
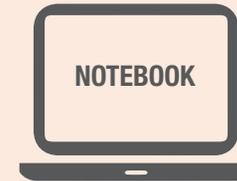
**RoHS** COMPLIANT

**AEC-Q101** Qualified

**Incorporates** proximity and ambient light photodiodes, multiplexer, signal conditioning and I<sup>2</sup>C interface **in a single package**

## APPLICATIONS

Ideal for gesture recognition in automotive, consumer, and industrial applications



## PRIMARY CHARACTERISTICS

Operating Range (V)	2.5 to 3.6
I <sup>2</sup> C BUS Voltage Range (V)	1.8 to 5
IRED Pulse Current (mA)	up to 200
Ambient Light Range (lx)	0.004 to 4192
Ambient Light Resolution (lx)	0.004
Output Code 16 bit	I <sup>2</sup> C

For Technical Questions: [sensorstechsupport@vishay.com](mailto:sensorstechsupport@vishay.com)

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