

## VCNL36758 High Sensitivity Proximity Sensor With I<sup>2</sup>C Interface

# Offers Medium Distance Detection Up to 600 mm in Compact SMD Package

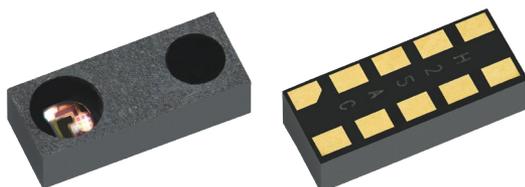


### ADVANTAGE

Space-saving device delivers low power consumption and robust background light cancellation

### KEY PRODUCT FEATURES

- ✓ 5.0 mm x 2.0 mm x 1.5 mm 10-pin molded package
- ✓ Integrates an IR emitter, photodiode, amplifiers, and 12-bit ADC
- ✓ High sensitivity supports dark lens designs
- ✓ Programmable IR emitter current sink
- ✓ A smart, adjustable persistence scheme prevents false triggers to ensure accurate sensing and faster response time
- ✓ 12-bit proximity sensor uses intelligent cancellation to eliminate crosstalk



### MARKETS AND APPLICATIONS



#### CONSUMER

- Entertainment
- Appliances

### ADDITIONAL BENEFITS

- Compared to previous-generation solutions, the proximity sensor offers a volume reduction of 65 %
- The integrated IR emitter is driven by a built-in current sink with an internal selectable register, allowing engineers to optimize detection range and power consumption
- Emitter wavelength peaks at 940 nm and has no visible “red-tail”

### RESOURCES



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