

Grove - Light&Gesture&Color&Proximity Sensor (TMG39931)

SKU 101020580


★★★★★

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CN Warehouse



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TMG39931

I2C

Description

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The Grove - Light & Gesture & Color & proximity sensor is TMG39931 based product, which features advanced Gesture detection, Proximity detection, Digital Ambient Light Sense(ALS), Color Sense(RGBC), and optical pattern generation/transmission for broadcast. This four-in-one sensor allows you to collect the data from ambient environment and transfers over the I2C bus.

Feature

- Single device integrated optical solution
- Ambient light sensing
- UV and IR blocking filters
- Complex gesture sensing
- Ideal for operation behind dark glass - High sensitivity
- Proximity detection
- Barcode pattern generation and transmission
- Dual use of a single internal LED
- Trimmed to provide consistent reading

Typical applications

- Gesture Detection
- Color Sense
- Ambient Light Sensing
- Cell Phone Touch Screen Disable
- Mechanical Switch Replacement
- Printed Bar Code Emulation

Working Principle

Gesture Detection

Gesture detection utilizes four directional photodiodes to sense reflected IR energy (sourced by the integrated LED) to convert physical motion information to a digital information.

Proximity Detection

The proximity detection features provides object detection by photodiode detection of reflected IR energy(Sourced by the integrated LED).

Digital Ambient Light Sense & Color Sense

The Color and ALS detection feature provides red, green, blue and clear light intensity data. Each of the R, G, B, C channels have a UV and IR blocking filter and a dedicated data converter producing 16-bit data simultaneously. This architecture allows applications to accurately measure ambient light and sense color which enables devices to calculate illuminance and color temperature, control display backlight, and chromaticity.

ECCN/HTS

ECCN	EAR99
HSCODE	9027900000
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