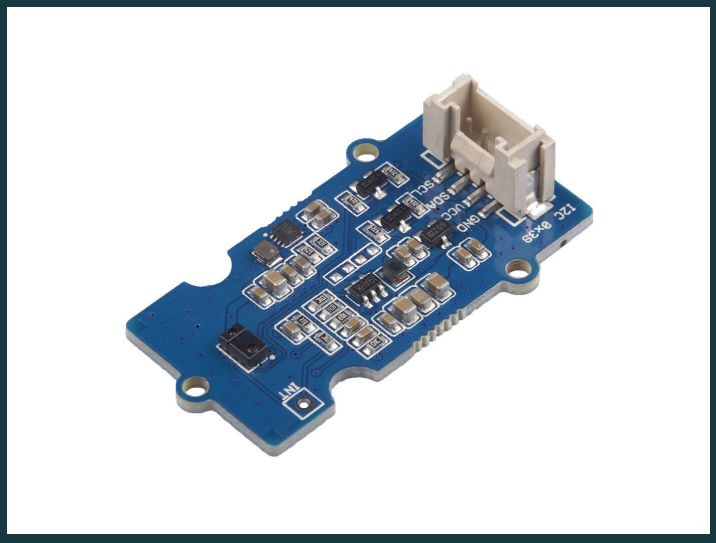
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INDUSTRIAL PRODUCT DATASHEET

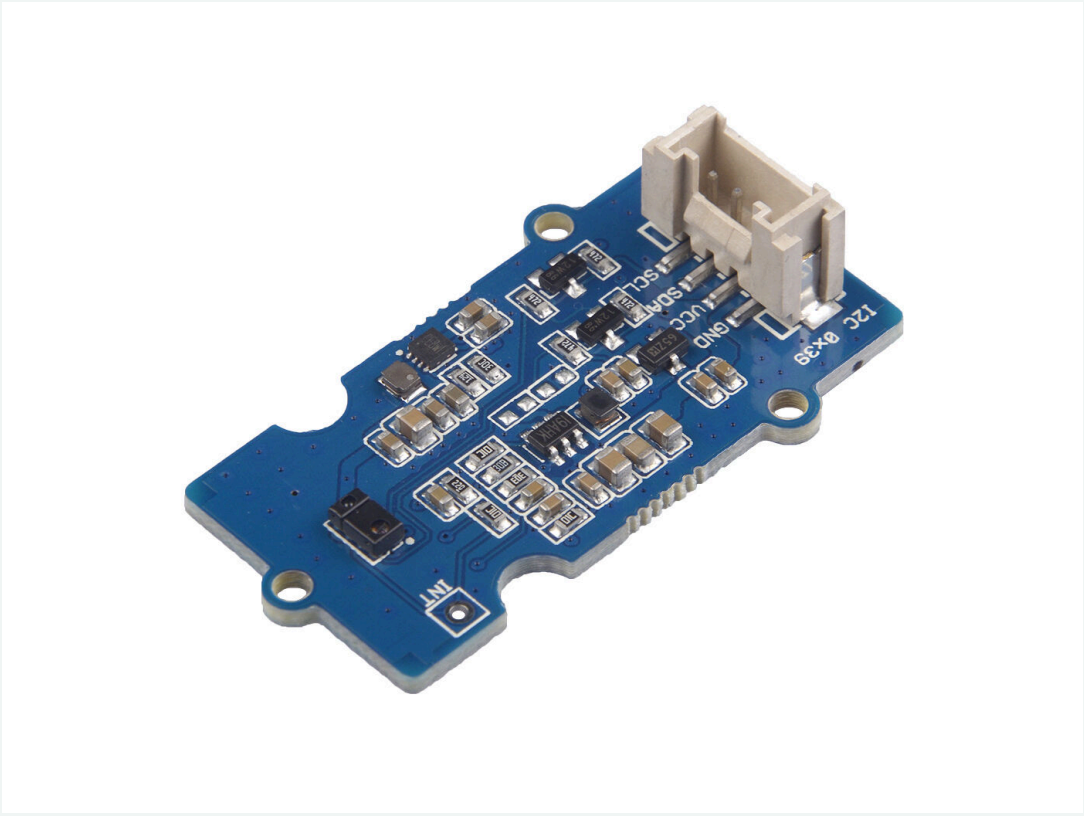
Grove - Light&Color&Proximity Sensor (TMG39931) - Color sense,light detection,Bar Code Emulation

The Grove - Light & Color & proximity sensor is TMG39931 based product, which features advanced detection, Proximity detection, Digital Ambient Light Sense(ALS), Color Sense(RGBC), and optical pattern generation/transmission for...

SKU	UPDATED	PRICE
101020580	2026-11-11 08:08:16	$16.40(Excl. VAT)



Overview



The Grove - Light & Color & proximity sensor is TMG39931 based product, which features advanced 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 the ambient environment and transfers it over to the I2C bus.

Key Features

01 **Industrial grade integrated optical solution**

Support Gesture Detection, Proximity, Color/ALS and IRBeam detection

02 **Complex Gesture Sensing**

Four independent diodes improve the recognition of different directional gesture sensitivity and compensate for ambient light, plus the 32-bit Dataset storage FIFO recognition is more accurate

03 **Proximity detection**

98,000:1 Dynamic Range and Ambient Light Rejection make the recognition distance error smaller

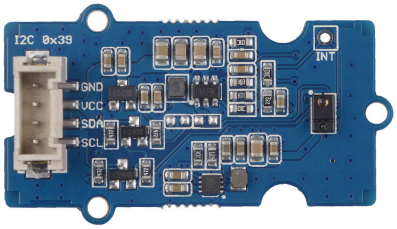
04 **Ambient light sensing**

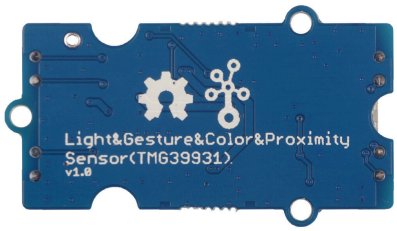
UV and IR blocking filters and up to 16.7M:1 Dynamic Range are used to accurately collect light perception

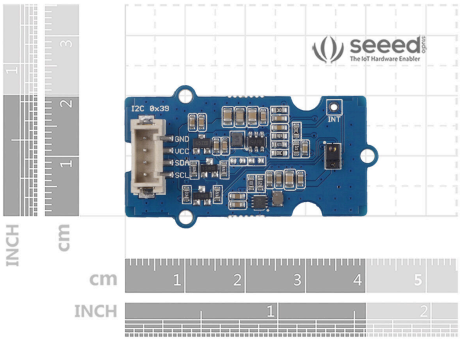
05 **Barcode pattern generation and transmission**

Support IRBeam Hardware and Pattern Storage in Internal RAM

Product Gallery







Applications

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

Resource Links

- https://www.seeedstudio.com/Grove-Light-Color-Proximity-Sensor-TMG39931-p-2879.html
- Grove - Light&Gesture&Color&Proximity Sensor(TMG39931) Eagle Files
- Grove - Light&Gesture&Color&Proximity Sensor(TMG39931) Library
- Datasheet TMG39931
- PDF version WIKI

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