

AS7341 11-Channel Visible Light Sensors

SEN0364 & SEN0365

Product Overview

07-13-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot Gravity: AS7341 11-Channel Visible Light Sensors use the new generation of AS7341 spectral sensor. These sensors feature eight channels for the visible light, one channel for near-IR, and one channel without a filter. The AS7321 11-channel visible light sensors also features 3.3V to 5V power supply range, <5mA operating current, and Class 1-20 (4mA-42mA) LED driving current.



The AS7321 11-channel visible light sensors integrate a dedicated channel to detect ambient light flicker. These sensors come with six independent 16-bit ADC channels for data processing in parallel. The AS7321 11-channel visible light sensors are used in the applications such as high accuracy color detection and matching, color mixing effect detection, lighting color temperature adjustment, lighting atmosphere control, and modern plant cultivation.

Features

- 8 optical channels covering the visible spectral range
- 50Hz and 60Hz ambient light flicker detection
- 6 independent 16-bit ADC channels

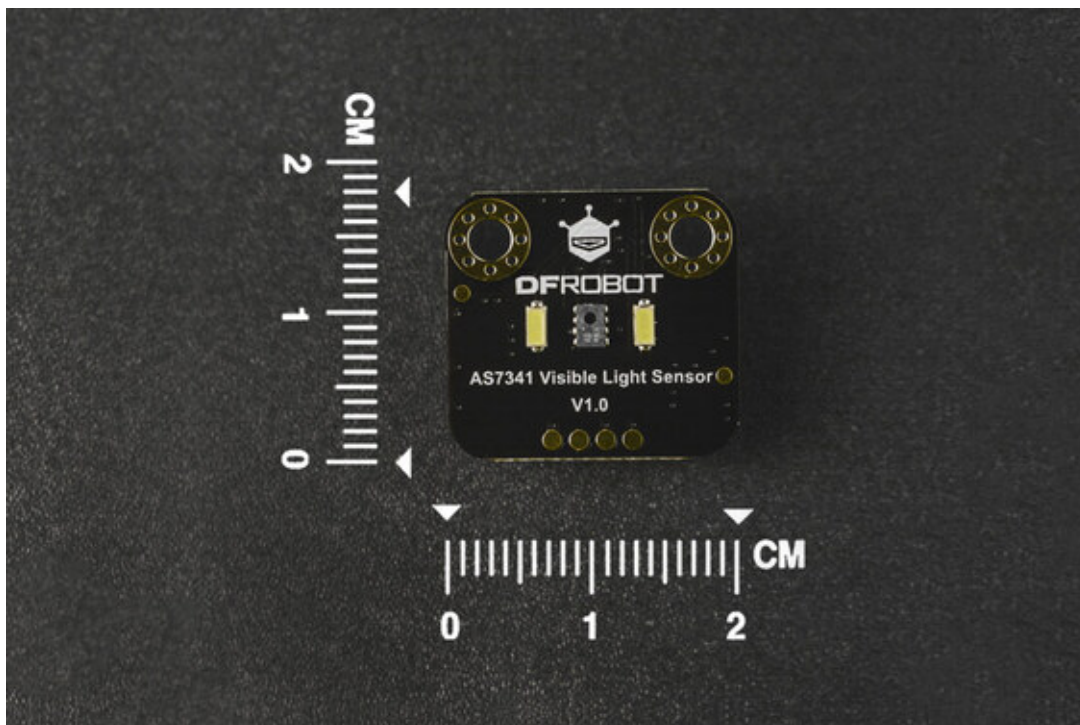
Specifications

- 3.3V to 5V power supply range
- Visible light detection range:
 - F1(405nm-425nm)
 - F2(435nm-455nm)
 - F3(470nm-490nm)
 - F4(505nm-525nm)
 - F5(545nm-565nm)
 - F6(580nm-600nm)
 - F7(620nm-640nm)
 - F8(670nm-690nm)
- <5mA operating current (LED off)
- Class 1-20 (4mA-42mA) LED Driving Current
- 0x39 I²C address
- -30°C to 85°C operating temperature range
- 5%RH to 85%RH operating humidity range
- 22mm x 20mm/0.87"x0.79" dimension

Applications

- High accuracy color detection and matching
- Color mixing effect detection
- Lighting color temperature adjustment
- Lighting atmosphere control
- Modern plant cultivation

Dimensions Diagram



Mouser Part Numbers

[View All Parts](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-gravity-as7341-sensor/>