XinaBox Datasheet SG34 - Particle Sensor



Contents

- 1 Overview
 - 1.1 Product Highlights
 - 1.2 Applications
- 2 Specifications
 3 External Links
- 3 External Line

Overview

This xCHIP is based on the MAX30105 particle sensing module. The MAX30105 includes internal LEDs, photo-detectors, optical elements, and low-noise electronics with ambient light rejection which is mainly aimed at smoke detection applications such as fire alarms.

Product Highlights

High Sensitivity Optical Reflective Solution for Detection of Wide Variety of Particle Sizes

Applications

Smoke Detectors

Specifications

- Based on MAX30105 From Maxim Integrated
- Tiny 5.6mm x 3.3mm x 1.55mm 14-Pin Optical Module: Integrated Cover Glass for Optimal, Robust Performance
- Ultra-Low Power Operation
- Robust Motion Artifact Resilience: High SNR
- -40°C to +85°C Operating Temperature Range
- Capable of Operating at High Ambient Levels
- Excellent Ambient Rejection Capability
 Store as Terms and the Rejection Capability
- Storage Temperature Range: -40°C to +105°C
 SCL Clock Frequency: 0 400 kHz
- SCL Clock Frequency: 0 400
 Particle-Sensing Subsystem
- Particle-Sensing Subsys
 Temperature Sensor
- LED Driver
- Proximity Function

External Links

GitHub

SG34 on GitHub (https://github.com/xinabox/xSG34)

SG34 - Particle Sensor (MAX30105)



Front

Back	
⊠CHIP	
Main Category	Sensor
Sub Category	Gas
Introduced	1 January 2017
Current version	1.0.0
Current version date	1 January 2017
Dimensions	
Size	2x2U (32x32mm)
Weight	3 g
Height	4.3/1.6/0mm
Main Chip Set	
Main Chip	MAX30105
I ² C Configuration	
Default Address	0x57