

GP2D12/GP2D15

Distance Measuring Sensors

General Purpose Type Distance Measuring Sensors

General Description

SHARP's **GP2D12/GP2D15** are general purpose type distance measuring sensors which consist of PSD* and infrared emitting diode and signal processing circuit. It enables to detect objects without any influence on the color of reflective objects, reflectivity, the lights of surroundings.

*PSD: Position Sensitive Detector

Features

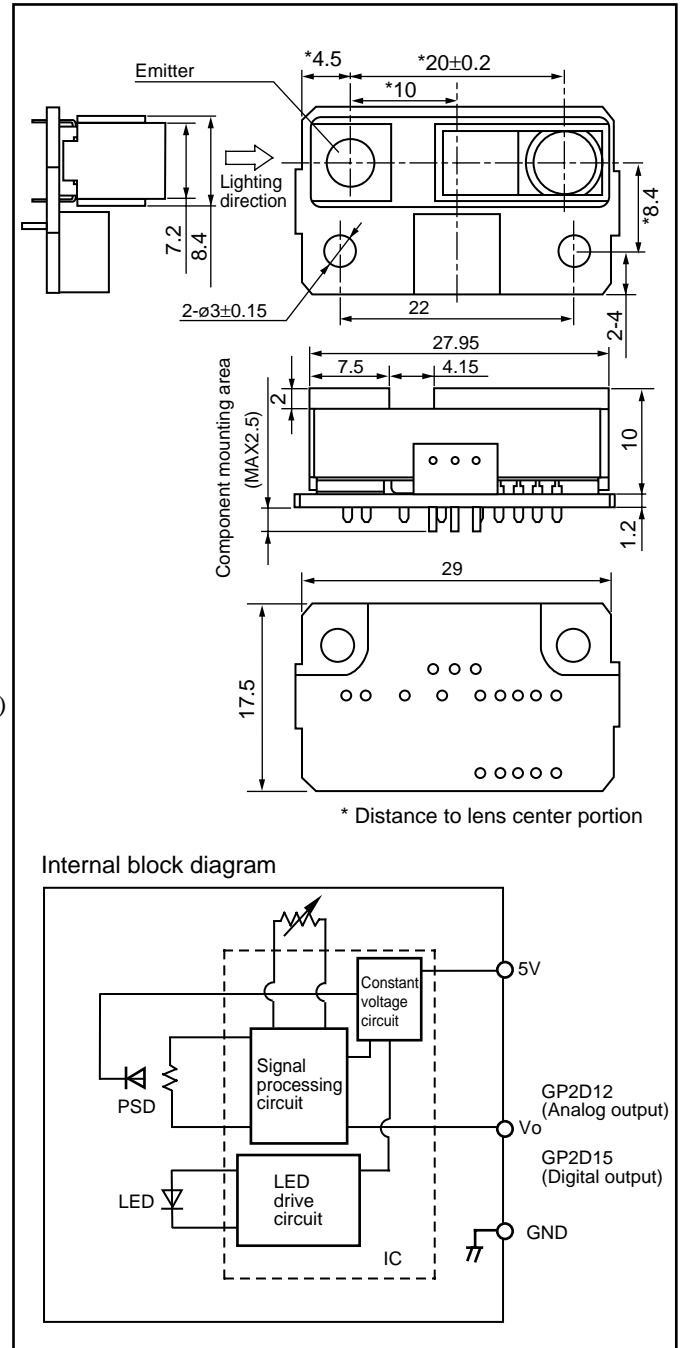
- (1) Less influence on the color of reflective objects, reflectivity
- (2) Line-up of distance output/distance judgement type
 Distance output type (analog voltage) : **GP2D12**
 Detecting distance : 10 to 80cm
 Distance judgement type : **GP2D15**
 Judgement distance : 24cm (Adjustable within the range of 10 to 80cm)
- (3) External control circuit is unnecessary.
- (4) Low cost

Applications

- (1) TVs
- (2) Personal computers
- (3) Cars
- (4) Copiers

Outline Dimensions

(Unit : mm)



(Notice) • In the absence of device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP device shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.
 • Specifications are subject to change without notice for improvement.

(Internet) • Data for SHARP's optoelectronic/power device is provided on internet. (Address <http://www.sharp.co.jp/ecg/>)

GP2D12/GP2D15

Distance Measuring Sensors

■ Specifications

GP2D12

(Ta=25°C)

| Parameter | Symbol | Rating |
|-----------------------|--------|---------------|
| Supply voltage | Vcc | 4.5 to 5.5V |
| Dissipation current | Icc | MAX.35mA |
| Measuring range | L | 10 to 80cm |
| Output type | — | Analog output |
| Operating temperature | Topr | -10 to +60°C |

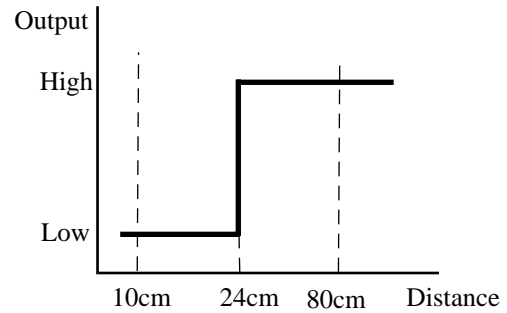
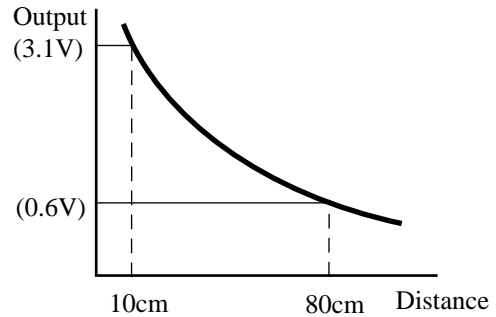
GP2D15

(Ta=25°C)

| Parameter | Symbol | Rating |
|-----------------------|--------|----------------|
| Supply voltage | Vcc | 4.5 to 5.5V |
| Dissipation current | Icc | MAX.35mA |
| *Judgement distance | L | TYP.24cm |
| Output type | — | Digital output |
| Operating temperature | Topr | -10 to +60°C |

* Adjustable within the range of 10 to 80cm.<Custom products>

■ Output pattern



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