GP2Y0A710K0F

Distance Measuring Sensor Unit
Measuring distance: 100 to 550 cm
Analog output type

■Description

GP2Y0A710K0F is a distance measuring sensor unit, composed of an integrated combination of PSD (position sensitive detector) , IRED (infrared emitting diode) and signal processing circuit.
The variety of the reflectivity of the object, the environmental temperature and the operating duration are not influenced easily to the distance detection because of adopting the triangulation method.
This device outputs the voltage corresponding to the detection distance. So this sensor can also be used as a proximity sensor.

■Features

1. Long distance type
   Distance measuring range : 100 to 550 cm
2. Analog output type
3. Package size : 58×17.6×22.5 mm
4. Consumption current : Typ. 30 mA
5. Supply voltage : 4.5 to 5.5 V

■Agency approvals/Compliance

1. Compliant with RoHS directive(2002/95/EC)

■Applications

1. Projector (for auto focus)
2. Robot cleaner
3. Auto-switch for illumination, etc.
4. Human body detector
5. Amusement equipment
   (Robot, Arcade game machine)

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In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.

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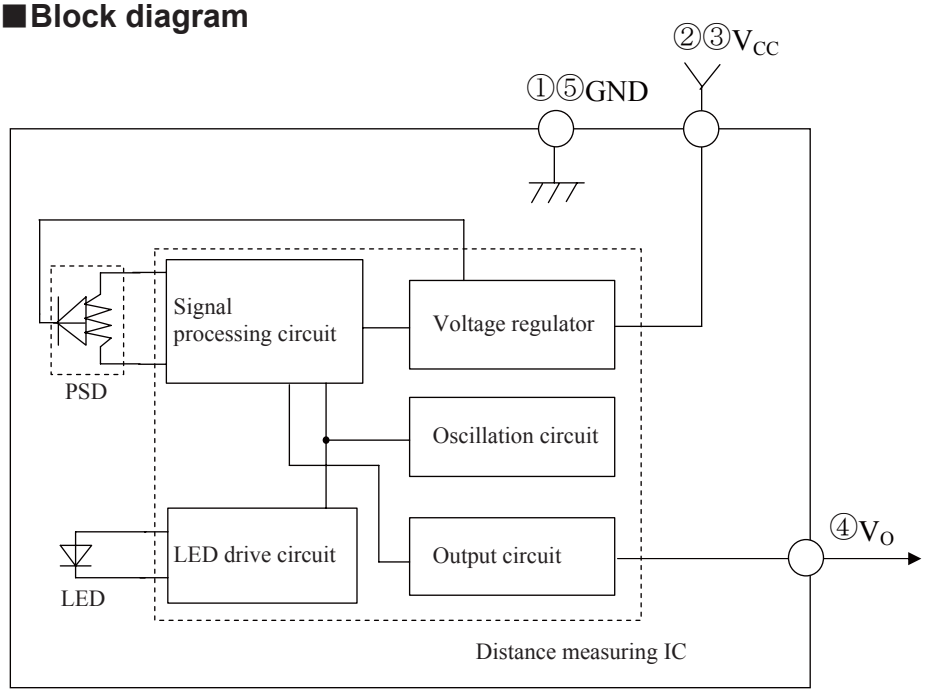
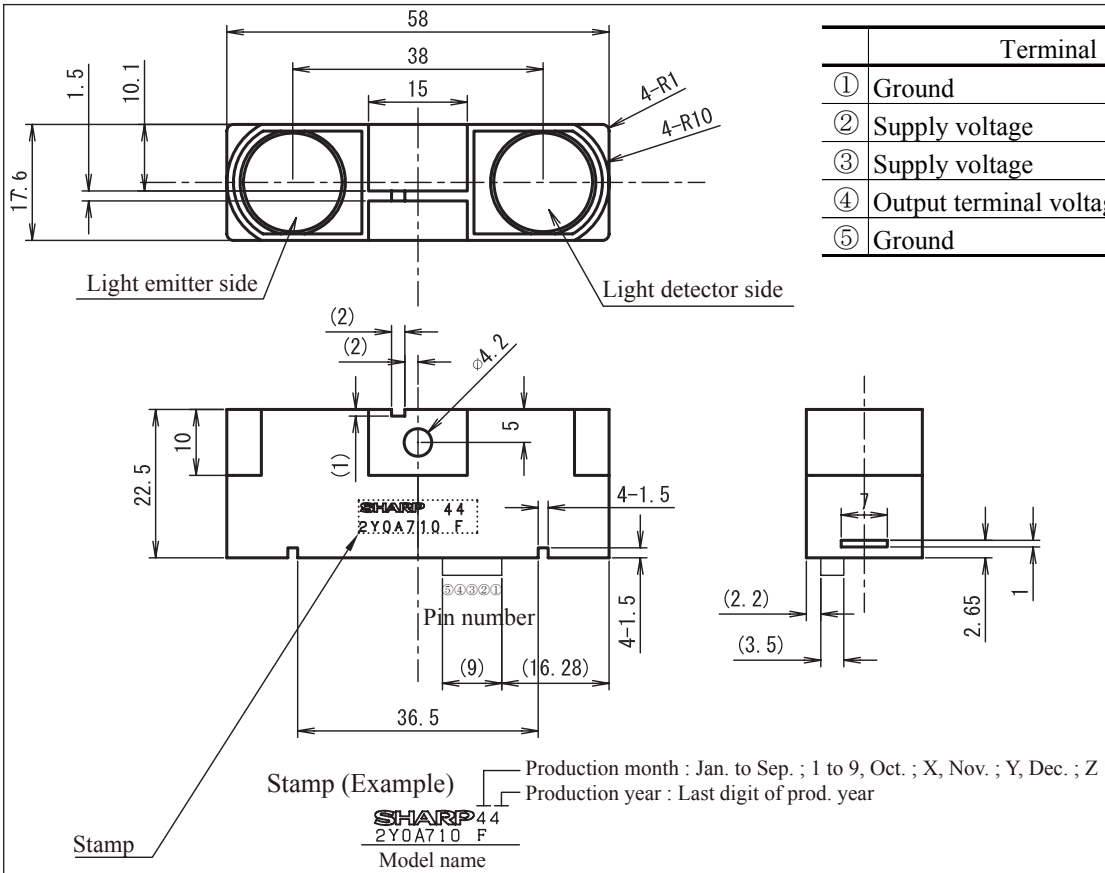
■Block diagram



■Outline Dimensions

(Unit : mm)



	Terminal	Symbol
①	Ground	GND
②	Supply voltage	V_{CC}
③	Supply voltage	V_{CC}
④	Output terminal voltage	V_O
⑤	Ground	GND

Note 1. Unspecified tolerances shall be ± 0.3mm.
Note 2. The connector is made by J.S.T.TRADING COMPANY,LTD. and its part number is B5B-ZR.
Note 3. The dimensions in parenthesis are shown for reference.

Product mass : approx. 9g