

GP2D05

Distance Measuring Sensor of 1-bit Output

■ Features

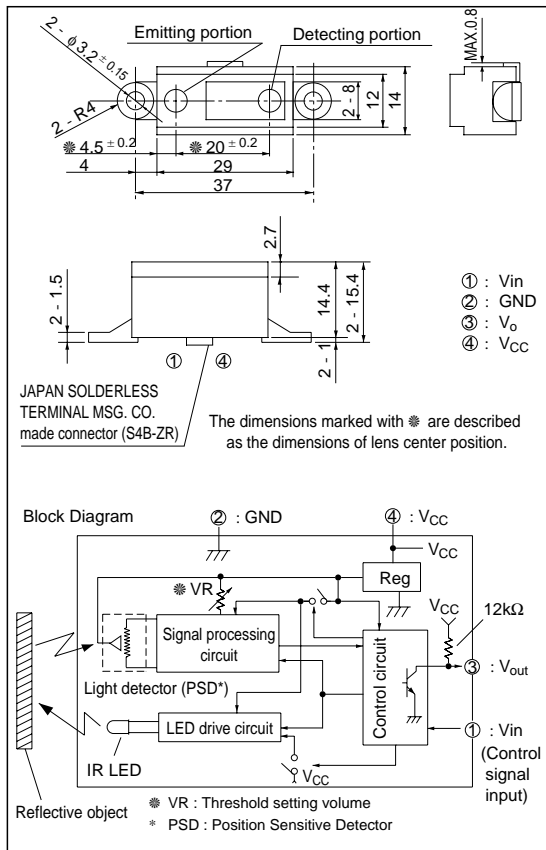
- Distance measuring type object sensor
(Distance measuring range : Optional distance can be set as threshold level by means of built-in VR)
- Impervious to color and reflectivity of reflective object
- High precision distance measurement through output of continuous measurement average value
- Low dissipation current at OFF-state
(dissipation current at OFF-state : TYP. 3 μ A)

■ Applications

- Sanitary sensors (human body detection)
- OA equipment (paper detection)
- Game equipment
- For consumer products (human body detection)

■ Outline Dimensions

(Unit : mm)



■ Absolute Maximum Ratings

(Ta=25°C, V_{CC}=5V)

Parameter	Symbol	Rating	Unit	Remarks
Supply voltage	V _{CC}	- 0.3 to + 10	V	
Input terminal voltage	V _{in}	- 0.3 to + 3	V	Open drain operation input
Output terminal voltage	BV _O	- 0.3 to + 10	V	
Operating temperature	T _{opr}	- 10 to + 60	°C	
Storage temperature	T _{stg}	- 20 to + 70	°C	

■ Operating Supply Voltage

Parameter	Rating	Unit
Operating supply voltage (V _{CC})	4.4 to 7	V

Fig. 1 Distance Measuring Output vs. Distance to Reflective Object

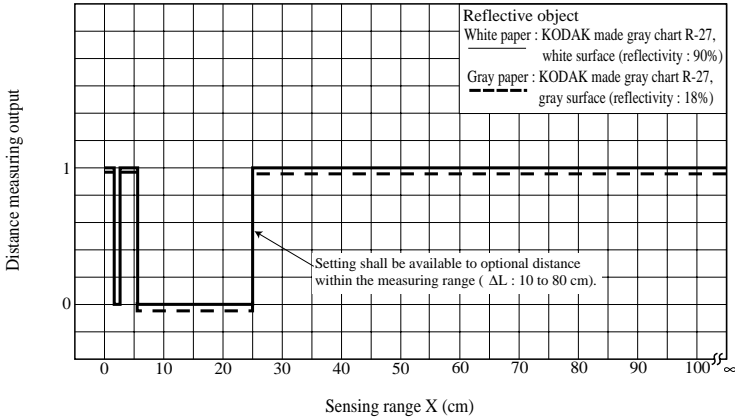
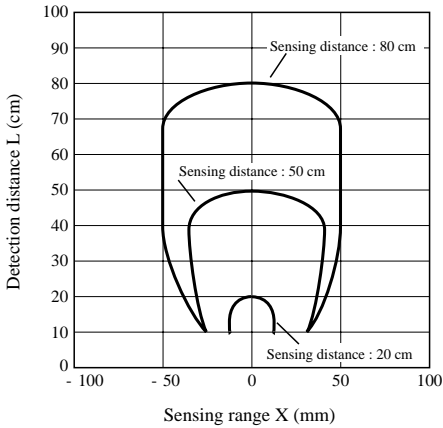


Fig. 2 Detection Distance vs. Sensing Range



Test Method for Sensing Range Characteristics

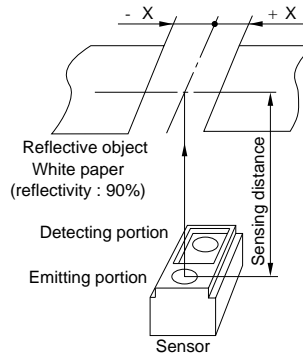
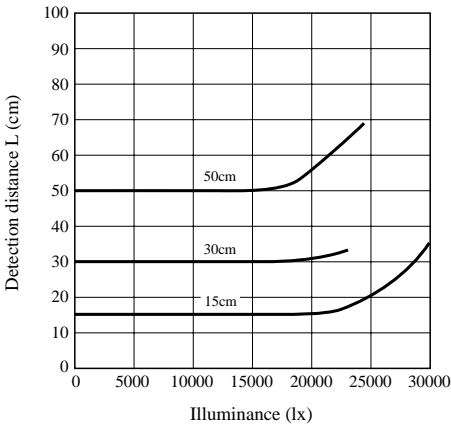


Fig. 3 Detection Distance vs. Illuminance



Test Method for Anti External Disturbing Light Characteristics

