

# GP2D120

## General Purpose Type Distance Measuring Sensors

### ■ 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) : **GP2D120**  
Detecting distance : 4 to 30cm
3. External control circuit is unnecessary

### ■ Applications

1. TVs
2. Personal computers
3. Amusement equipment
4. Copiers

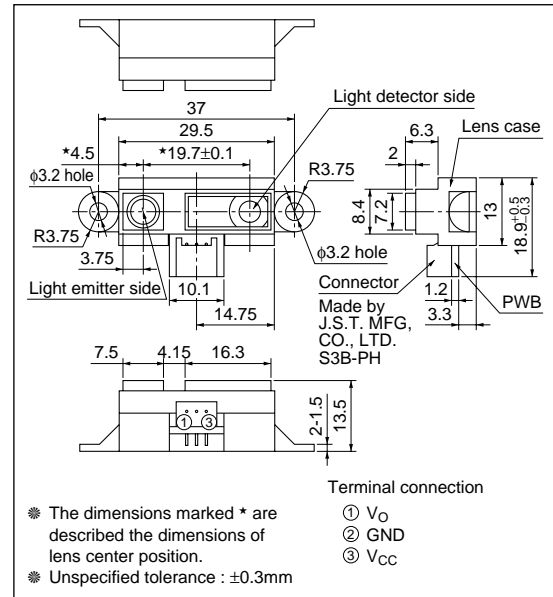
### ■ Absolute Maximum Ratings

( $T_a=25^\circ\text{C}$ ,  $V_{CC}=5\text{V}$ )

Parameter	Symbol	Rating	Unit
Supply voltage	$V_{CC}$	-0.3 to +7	V
Output terminal voltage	$V_O$	-0.3 to $V_{CC} + 0.3$	V
Operating temperature	$T_{opr}$	-10 to +60	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +70	$^\circ\text{C}$

### ■ Outline Dimensions

(Unit : mm)

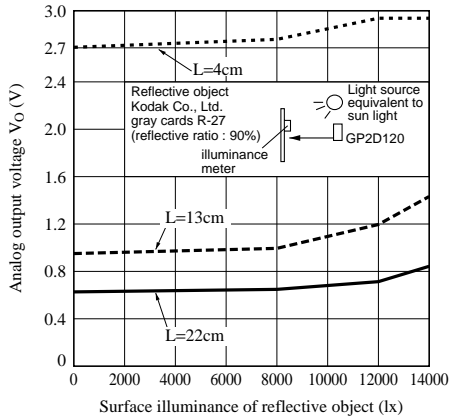


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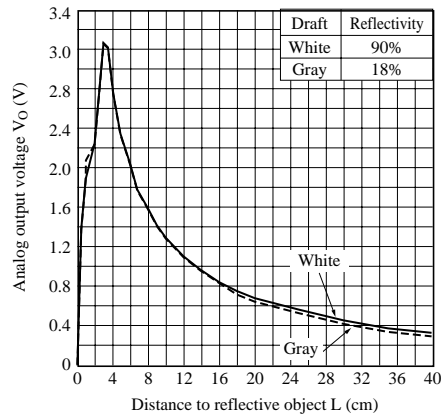
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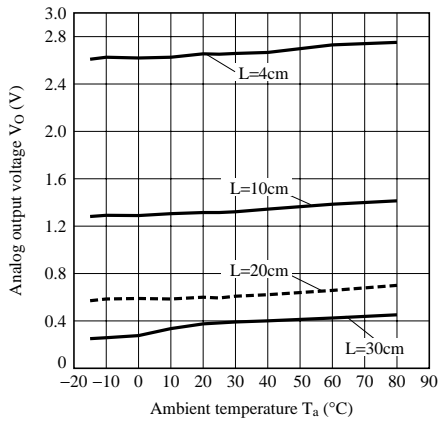
**Fig.3 Analog Output Voltage vs. Surface Illuminance of Reflective Object**



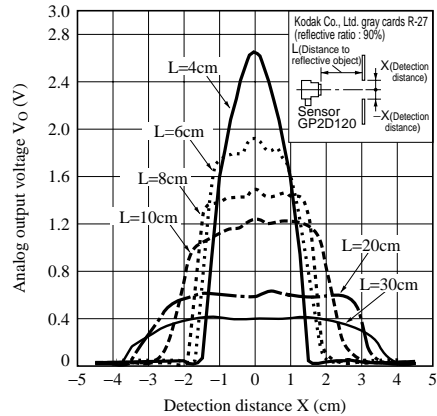
**Fig.4 Analog Output Voltage vs. Distance to Reflective Object**



**Fig.5 Analog Output Voltage vs. Ambient Temperature**



**Fig.6 Analog Output Voltage vs. Detection Distance**



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    - Office automation equipment
    - Telecommunication equipment [terminal]
    - Test and measurement equipment
    - Industrial control
    - Audio visual equipment
    - Consumer electronics
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    - Gas leakage sensor breakers
    - Alarm equipment
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