

# GP2D03/GP2DM03

## ■ Features

1. Paper size sensor system
  - 2-beam paper size sensor GP2D03 3pcs.
  - Special microcomputer built in software GP2DM03 1pc.
  - E<sup>2</sup>PROM for data storage 1pc.  
[Serial access type, memory capacity : 128X 8 bit]  
(E<sup>2</sup>PROM shall be applied to users').
2. High sensitive detection because of less influence on the color or reflectivity of reflective object thanks to position sensitive detector (PSD)
3. System control of 3 pcs. of operating sensor by GP2DM03
4. 6 bit parallel output (GP2DM03)
5. 2-beam type (**GP2D03**)
6. With initial mode in order to make E<sup>2</sup>PROM store thresh level for the existence of reflective object

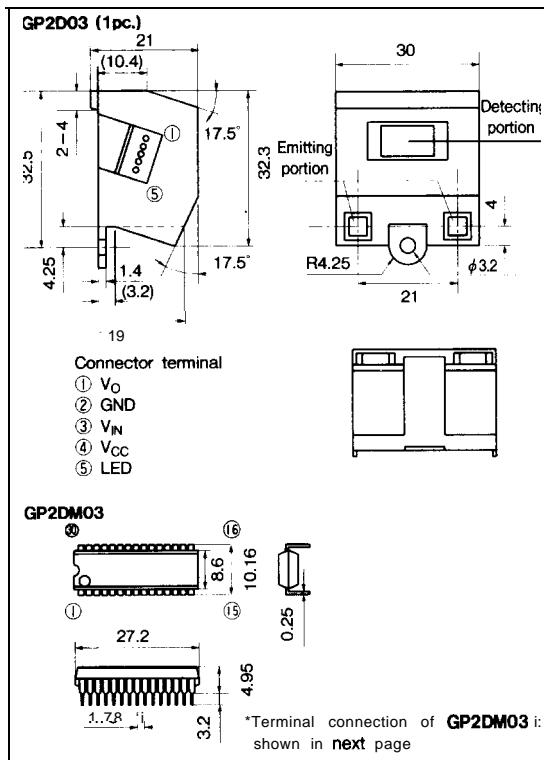
## A m -

1. Copiers

## Paper Size Sensor System

### ■ Outline Dimensions

(Unit : mm)



## ■ Specifications

(Characteristics of system configurated by GP2003 and **GP2DM03**, Ta= 25°C)

Parameter	Symbol	Rating	Unit
Supply voltage	V <sub>CC</sub>	5 ± 0.5	v
* <sup>1</sup> Paper detection height	H	TYP. 60	mm
LED beam pitch	L <sub>P</sub>	TYP. 21	mm
* <sup>2</sup> Approved value of paper position sliding	Δx	MIN. ±6	mm
* <sup>3</sup> Measuring time	t <sub>s</sub>	TYP. 140	ms
* <sup>4</sup> Paper detection density	OD	0.74 or less	
Dissipation current	GP2D03	TYP. 30	mA
	<b>GP2DM03</b>	TYP. 2	mA
Operating temperature	T <sub>opr</sub>	0 to 60	°C

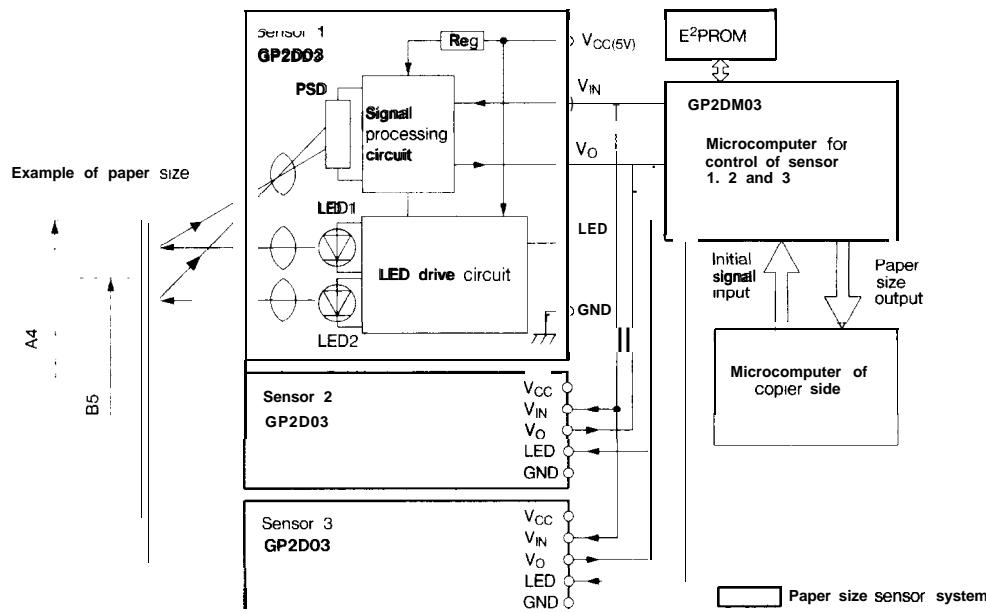
\*1 Optional setting in the range of 50mm to 70mm. Between the sensor to setting glass

\*2 At 60mmheight

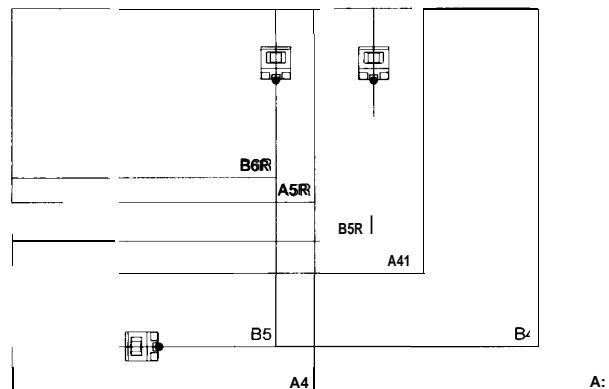
\*3 Time requiring for measurement of 6 portions

\*4 Reflectivity : 18% or more, OD = log (I/T), T : Reflectivity

## ■ System Configuration

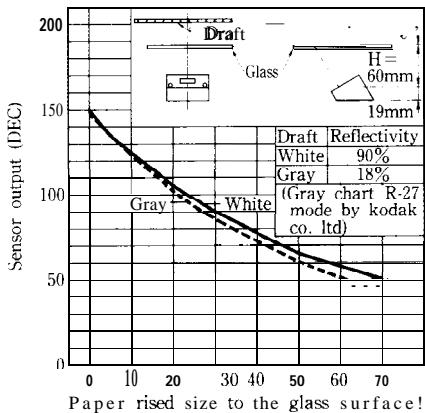


## ■ Example of Sensor Arrangement



## ■ Terminal Connection of GP2DM03

Terminal No.	Terminal name	Terminal No.	Terminal name	Terminal No.	Terminal name	Terminal No.	Terminal name
1	Data 3	12	V <sub>O</sub> input 2	19	RESET	26	C <sub>S</sub>
2	V <sub>CC</sub>	13	V <sub>O</sub> input 3	20	Data 2	27	
3 to 6		14		21	Data 1	28	Data 6
7	LED selecting output	15	OSC 2	22	INS input	29	Data 5
8	V <sub>in</sub> signal output	16	OSC 1	23	D <sub>O</sub>	30	Data 4
9 to 10		17	-	24	DI		
11	V <sub>O</sub> input 1	18	GND	25	S K		

**Distance Characteristics of GP2D03**

- Please refer to the chapter "Precautions for Use" (Page 78 to 93).