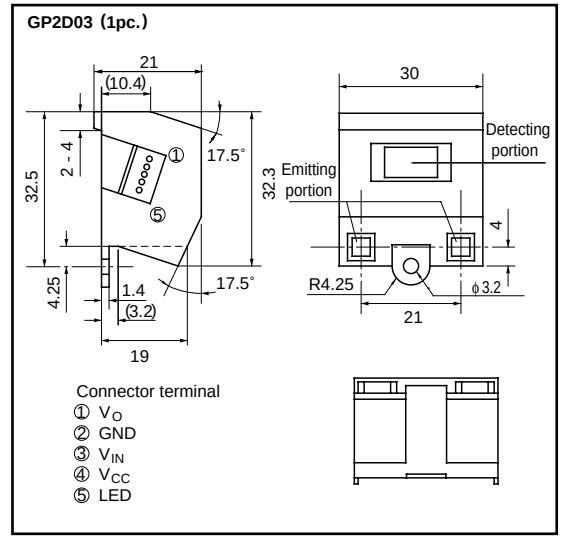
GP2D03

Paper Size Sensor System

■ Features

1. Paper size sensor system
   - 2-beam paper size sensor **GP2D03** 3pcs.
   - E^2PROM for data storage 1pc.
     [Serial access type, memory capacity : 128 x 8 bit]
     (E^2PROM 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. 2-beam type (**GP2D03**)
4. With initial mode in order to make E^2PROM store thresh level for the existence of reflective object

■ Outline Dimensions (Unit : mm)



■ Applications

1. Copiers

■ Specifications

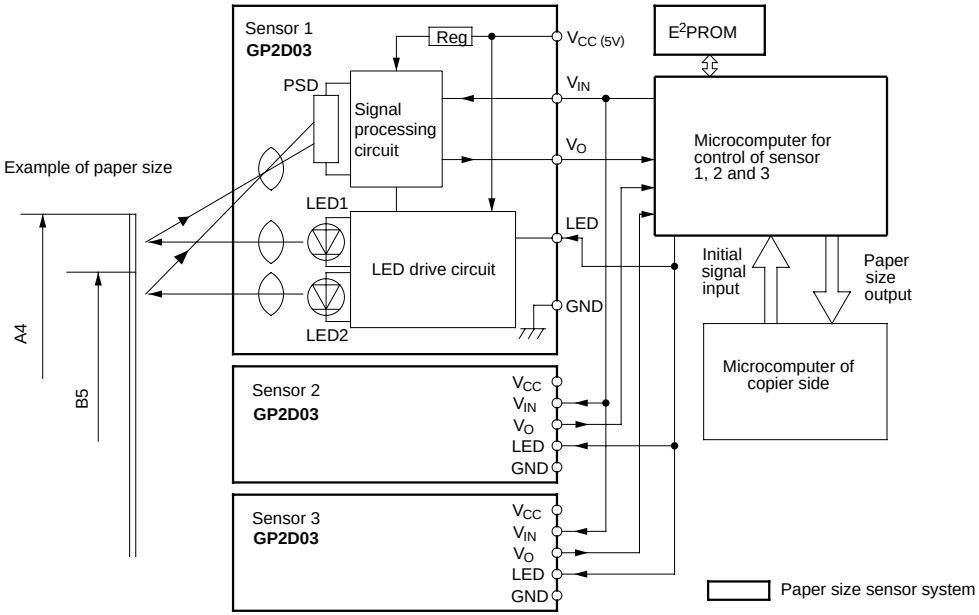
(Ta = 25°C)

Parameter		Symbol	Rating	Unit
Supply voltage		V_{CC}	5± 0.5	V
*1Paper detection height		H	TYP. 60	mm
LED beam pitch		L_P	TYP. 21	mm
*2Approved value of paper position sliding		Δx	MIN. ± 6	mm
*3Measuring time		ts	TYP. 140	ms
*4Paper detection density		OD	0.8 or less	-
Dissipation current	**GP2D03**	I_{CC}	TYP. 30	mA
Operating temperature		T_{opr}	- 10 to 60	°C

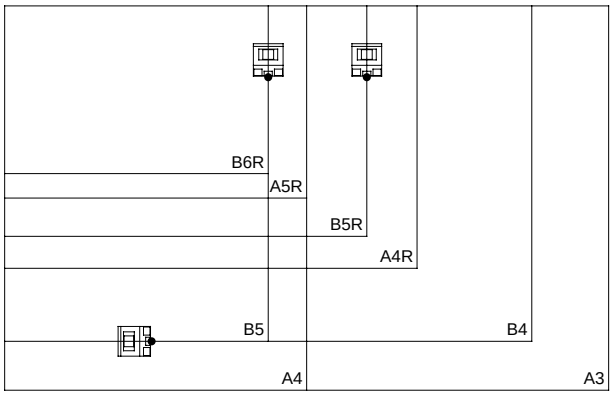
*1 Optional setting in the range of 50mm to 70mm. Between the sensor to setting glass
*2 At 60mm-height
*3 Time requiring for measurement of 6 portions
*4 Reflectivity : 16% or more, OD = log (1/T), T : Reflectivity

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

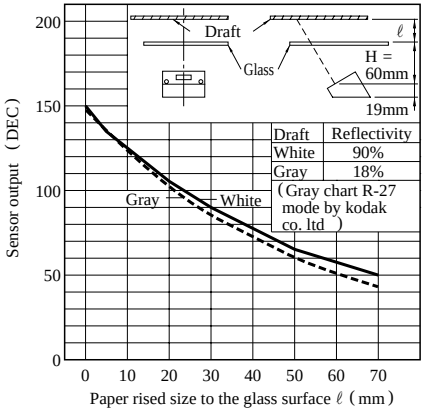
■ System Configuration



■ Example of Sensor Arrangement



Distance Characteristics of GP2D03



● Please refer to the chapter "Precautions for Use"