(Unit: mm)

Distanz-Mess-Sensor Best. Nr. 504591



GP2Y0A21YK0F Distance Measuring Sensor

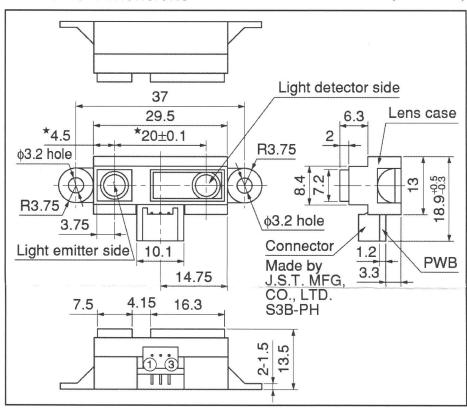
■ Features

- 1. Measuring distance: 10 to 80 cm
- 2. Analog output type

Applications

- 1. TVs
- 2. Personal computers
- 3. Amusument equipment
- 4. Measuring equipment
- 5. Copiers

Outline Dimensions



■ Absolute maximum ratings

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

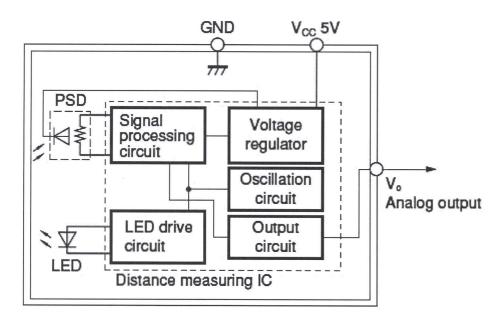
Parameter	Symbol	Rating	Unit
Supply voltage	V_{CC}	-0.3 to +7	V
Output terminal voltage	Vo	-0.3 to $V_{CC} + 0.3$	V
Operating temperature	T_{opr}	-10 to +60	°C
Storage temperature	T_{stg}	-40 to +70	°C

■ Electro-optical Characteristics

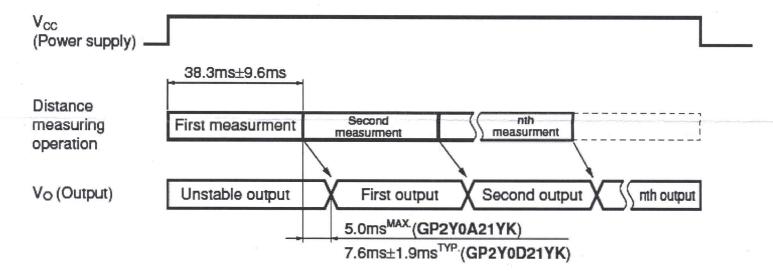
(T_a=25°C, V_{CC}=5V)

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Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Distance measuring range		ΔL	*1 *3	10		80	cm
Output terminal voltage	GP2Y0A21YK	V_{o}	L=80cm *1	0.25	0.4	0.55	V
	GP2Y0D21YK	V_{OH}	Output voltage at High *1	V _{CC} -0.3	-	_	V
		V_{OL}	Output voltage at Low*1			0.6	V
Difference of output voltage	GP2Y0A21YK	ΔV_{O}	Output change at L=80cm to 10cm*1	1.65	1.9	2.15	V
Distance characteristics of output	GP2Y0D21YK	Vo	*1 *4 *2	21	24	27	cm
Average Dissipation of	urrent	I_{CC}	L=80cm *1	_	30	40	mA

■ Internal Block Diagram



■ Timing Chart



■ Distance Charakteristics

