

### ■ Absolute Maximum Ratings (T<sub>a</sub>=25°C, V<sub>CC</sub>=5V)

Parameter	Symbol	Rating	Unit
Supply voltage	V <sub>CC</sub>	-0.3 to +7	V
Output terminal voltage	V <sub>O</sub>	-0.3 to V <sub>CC</sub> +0.3	V
Operating temperature	T <sub>opr</sub>	-10 to +60	°C
Storage temperature	T <sub>stg</sub>	-40 to +70	°C

### ■ Electro-optical Characteristics (T<sub>a</sub>=25°C, V<sub>CC</sub>=5V)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Average supply current	I <sub>CC</sub>	L=80cm (Note 1)	—	30	40	mA
Distance measuring	ΔL	(Note 1)	10	—	80	cm
Output voltage	V <sub>O</sub>	L=80cm (Note 1)	0.25	0.4	0.55	V
Output voltage differential	ΔV <sub>O</sub>	Output voltage difference between L=10cm and L=80cm (Note 1)	1.65	1.9	2.15	V

\* L : Distance to reflective object

Note 1 : Using reflective object : White paper (Made by Kodak Co., Ltd. gray cards R-27·white face, reflectance; 90%)

### ■ Recommended operating conditions

Parameter	Symbol	Rating	Unit
Supply voltage	V <sub>CC</sub>	4.5 to 5.5	V

**Fig. 1 Timing chart**

