

### ■ 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	$^{\circ}\text{C}$

### ■ Electro-optical Characteristics ( $T_a=25^{\circ}\text{C}$ , $V_{CC}=5\text{V}$ )

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Average supply current	$I_{CC}$	$L=150\text{cm}$ (Note 1)	—	33	50	mA
Measuring distance range	$\Delta L$	(Note 1)	20	—	150	cm
Output voltage	$V_O$	$L=150\text{cm}$ (Note 1)	0.25	0.4	0.55	V
Output voltage differential	$\Delta V_O$	Output voltage difference between $L=20\text{cm}$ and $L=150\text{cm}$ (Note 1)	1.8	2.05	2.3	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	Conditions	Rating	Unit
Supply voltage	$V_{CC}$		4.5 to 5.5	V

Fig. 1 Timing chart

