

■ Absolute Maximum Ratings (T_a=25°C, V_{CC}=5V)

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	°C
Storage temperature	T _{stg}	-40 to +70	°C

■ Electro-optical Characteristics (T_a=25°C, V_{CC}=5V)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Average supply current	I _{CC}	L=150cm (Note 1)	—	30	50	mA
Distance measuring	ΔL	(Note 1)	100	—	550	cm
Output voltage	V _O	L=100cm (Note 1)	2.3	2.5	2.7	V
Output voltage differential	ΔV _{O1}	Output voltage difference between L=100cm and L=200cm (Note 1)	0.5	0.7	0.9	V
	ΔV _{O2}	Output voltage difference (L=100cm→200cm)/ Output voltage difference (L=200cm→550cm)(Note 1,2)	1.25	1.55	1.85	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%)

Note 2 : The value at 550 cm is the average of 20 times distance measuring.

■ Recommended operating conditions

Parameter	Symbol	Conditions	Rating	Unit
Supply voltage	V _{CC}		4.5 to 5.5	V

Fig. 1 Timing chart

