■Absolute Maximum Ratings

(T_a=25℃,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	℃
Storage temperature	T_{stg}	-40 to +70	℃

■Electro-optical Characteristics

(T_a=25℃,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 differentce (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
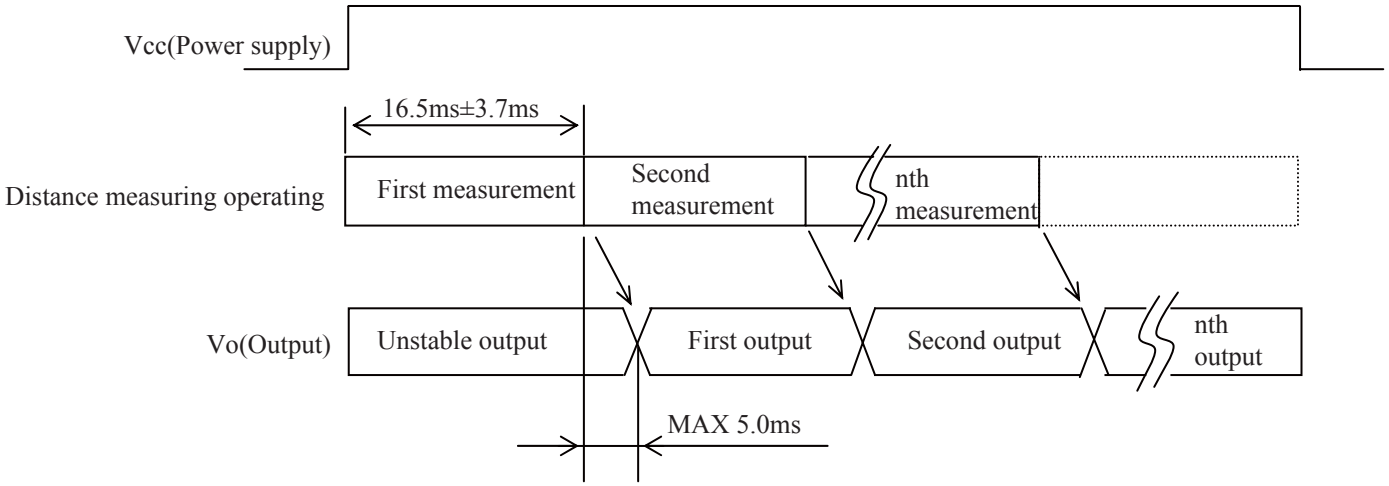
Fig. 1 Timing chart