

■ 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

