

■ 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) | — | 33 | 50 | mA |
| Measuring distance range | ΔL | (Note 1) | 20 | — | 150 | cm |
| Output voltage | V _O | L=150cm (Note 1) | 0.25 | 0.4 | 0.55 | V |
| Output voltage differential | ΔV _O | Output voltage difference between L=20cm and L=150cm (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

