LMS-4

Sunmulon

LMS-4 Light Sensor

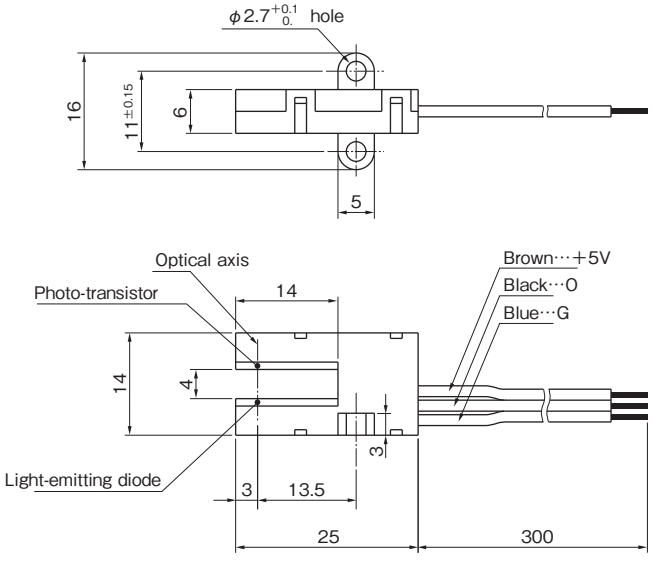
Even it's Mini body and low cost type, can detect wide application range, like thin white paper.

- Built-in Amplifier inside the miniature body size. 6(W)×14(H)×25(L)
- 14mm slit makes easy set of the Light Shielding Object.
- Infrared LED for Projecting set and Photo-transistor for Receiving set enable to detect wide application range.
- Easy to dust, as set a filter to Projecting/Receiving surface.
- Having high amplification built-in Amp., Ic max=80 mA (Ta=25℃) output current, and can drive Relay directly.

SPECIFICATION

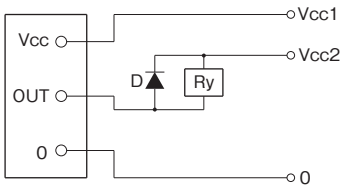
Supply Voltage	DC 5V±10%
Supply Current	20mA (at 5V)
Load Voltage	Max. 24V
Load Current	Max. 80mA
Output Style	Open collector Output is ON when shield the Light
Size of Light Shielding Object	Min. φ1mm
Working Light	Infrared LED, direct current lighting
Ambient Temperature	−10~70℃
Ambient Humidity	Under 80%RH (without waterdrops on Projecting/Receiving surface)

DIMENSION



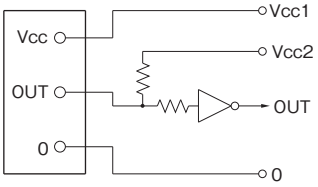
CIRCUIT

●Inductive load circuit



D: Protection diode

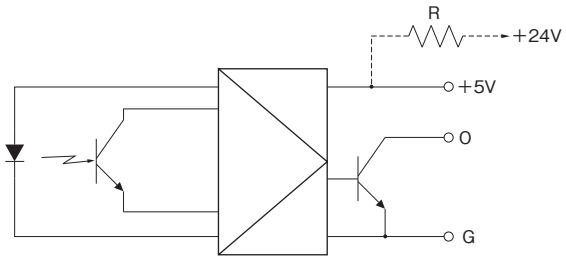
●Non-inductive load circuit



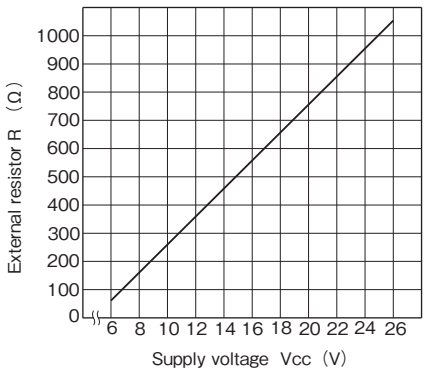
※For a single power supply, Vcc1＝Vcc2.

Tolerance : ±0.4mm

CIRCUIT DIAGRAM

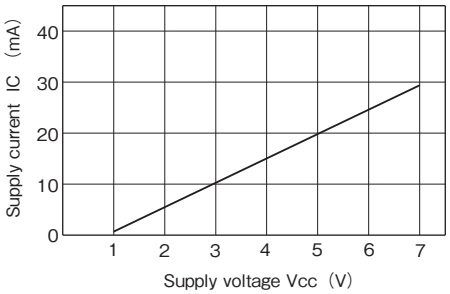


Note: In case of your use with supply voltage more than 5V, please connect external resistor R by the right chart.

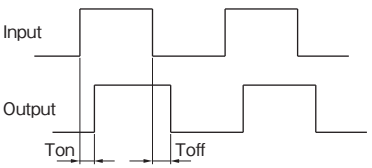


CHARACTERISTIC CURVE (EXAMPLE)

●Supply Voltage−Supply Current



●Response

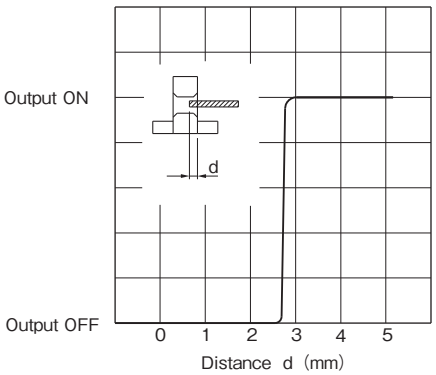


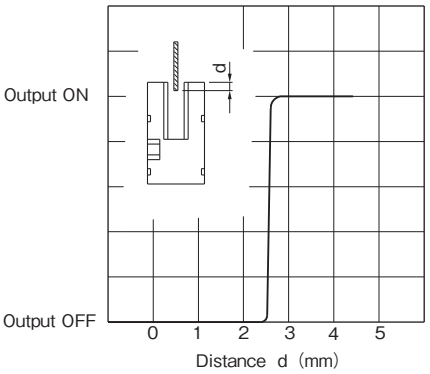
Response Speed :
TON=Less 20 μ sec
TOFF=Less 50 μ sec

tr=Less 5 μ sec
tf=Less 5 μ sec

※Input is switched outside.

●Detective Position





ORDERING CODE

LMS-4

図面一般公差：±0.4mm