

OH -118 -A5

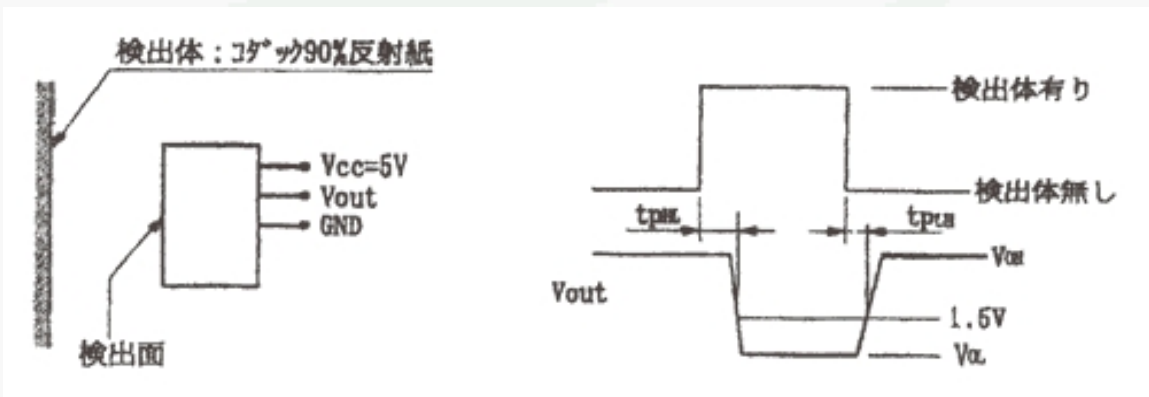
Electrical/Optical Characteristics (Ta=25 °C)

Item	Symbol	Conditions	Min	Typ	Max	Unit
Operating Voltage	V _{CC}		4.5	-	5.5	V
Consumption Current	I _{CC}	V _{CC} =5V, V _{OUT} =OPEN (average value)	-	-	15	mA
Output Voltage, Low	V _{OL}	I _{OUT} =16mA	-	0.1	0.4	V
Output Voltage, High	V _{OH}	V _{CC} =5V	4.9	-	-	V
Response Time	t _{FHL}	Note 1	-	-	1.0	ms
	t _{FLH}		-	-	1.0	ms



Detecting Output	Low when Detecting	
Detecting Distance	V _{CC} =5V 90% Reflection Paper (Kodak)	5 ± 4 mm
	V _{CC} =5V Value N5.5 color chip (non -glossy)	5 ± 2 mm
Ambient Luminance	3,000 LUX Max. Incandescent lamp or 50 - 60 Hz Fluorescent Lamp	

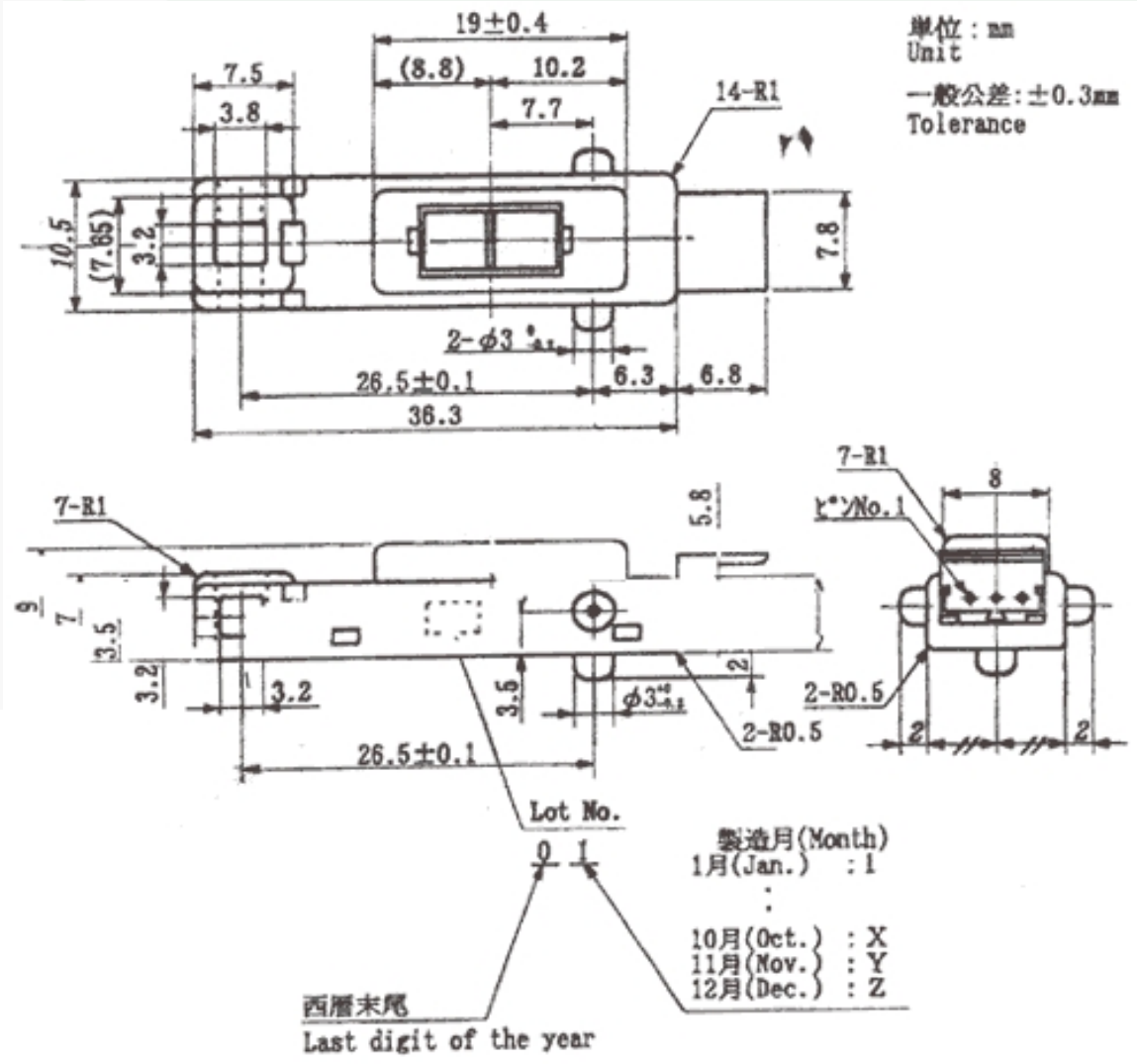
Note 1:



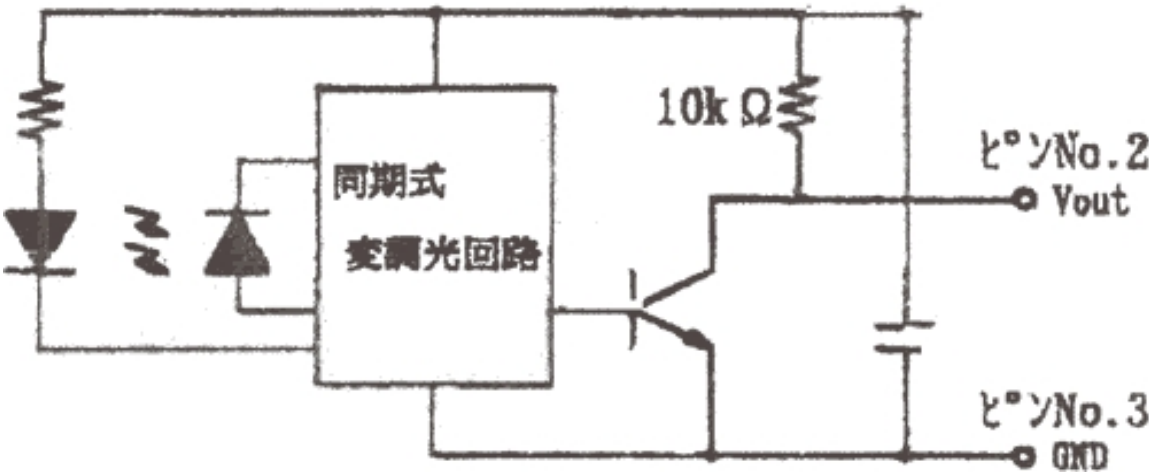
Mechanical Characteristics

Vibration Resistance	To withstand 10~55~10Hz, 1.5mm amplitude and 1 minute sweep time in X, Y and Z directions, each for 2 hours.
Shock Resistance	294m/S ² (30G) or more.
Tightening Torque	4 kgf·cm (0.392 N·m Max (By hand or electric driver)

Outer Dimensions



Connection Diagram



Components

No.	Description	Qty.	Materials	Remarks
1	Case	1	PBT (G15%)	Flammability: UL94V -2 or more
2	Case	1	PBT (G15%)	Flammability: UL94V -2 or more
3	Lens	1	Acryl Resin	UL-94HB
4	Connector	1	175768 -3	AMP (Natural)
5	Printed Circuit Board	1	FR-4, CEM -3	UL-94V -0

Handling Notes

1. Careful attention should be made to avoid deformation of components.

2. Environmental air must be free from corrosive gasses such as hydrogen sulfide or salt water air.

3. Mount sensor away from direct sunlight and incandescent light.

4. The side with emitting and receiving elements should be handled very carefully.

5. Do not wash sensors. Liquid may get into the case and cause damage. If you must clean the surface area, use a soft cloth damped with a washing fluid such as methanol or isopropyl alcohol.

6. Degrading LED radiant power should be addressed if sensor is used repeatedly over a long period of time.

7. This product was designed for use in the following applications:

OA equipment, video equipment, consumer electronics, communication equipment, measuring equipment, and control equipment.
- When designing a system for safety and reliability, be sure to incorporate fail

-safe and other appropriate measures