

OH -118 -A5

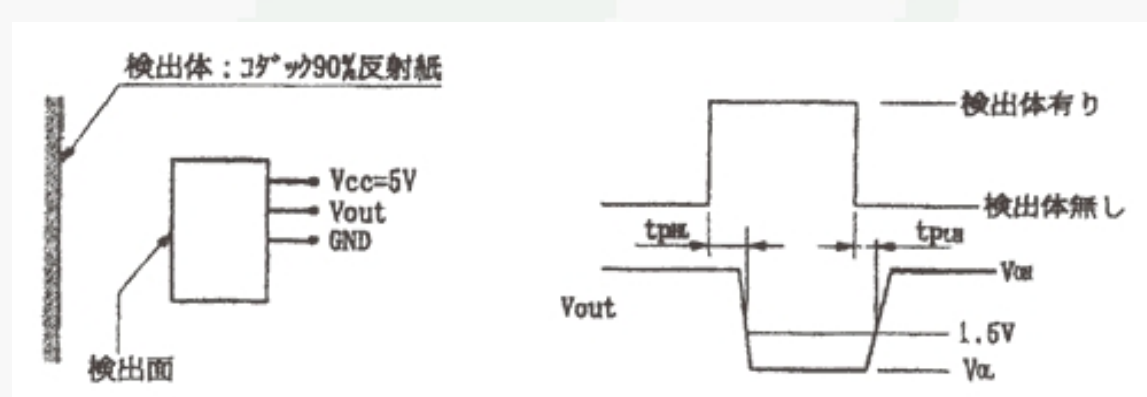
Electrical/Optical Characteristics (Ta=25 °C)

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	

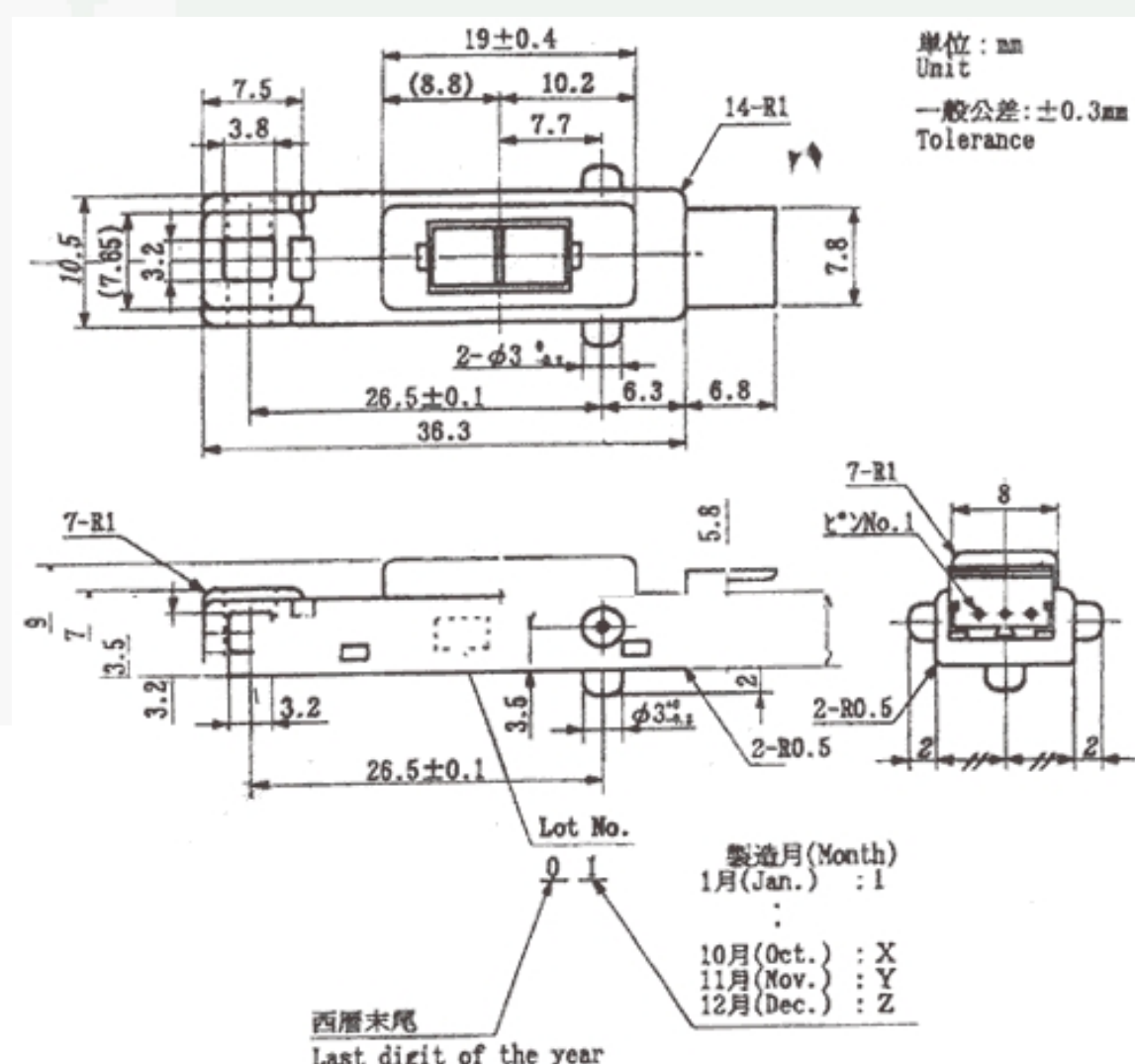
Note 1:



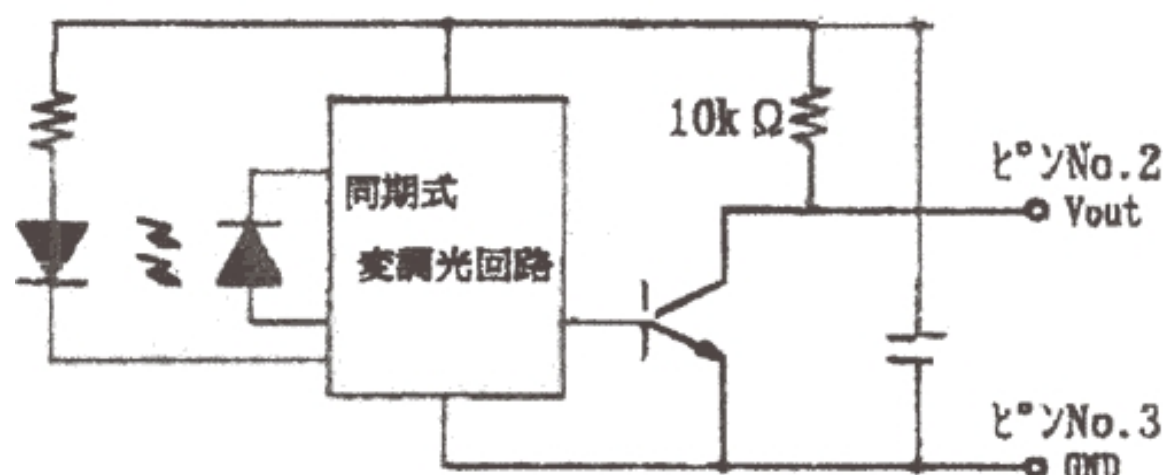
Mechanical Characteristics

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

- Careful attention should be made to avoid deformation of components.
- Environmental air must be free from corrosive gasses such as hydrogen sulfide or salt water air.
- Mount sensor away from direct sunlight and incandescent light.
- The side with emitting and receiving elements should be handled very carefully.
- 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.
- Degrading LED radiant power should be addressed if sensor is used repeatedly over a long period of time.
- 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