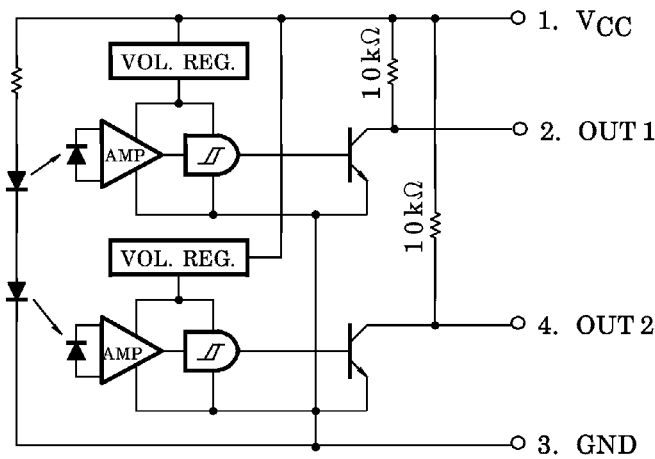


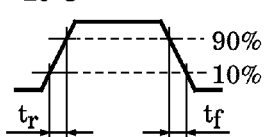
PIN CONNECTION



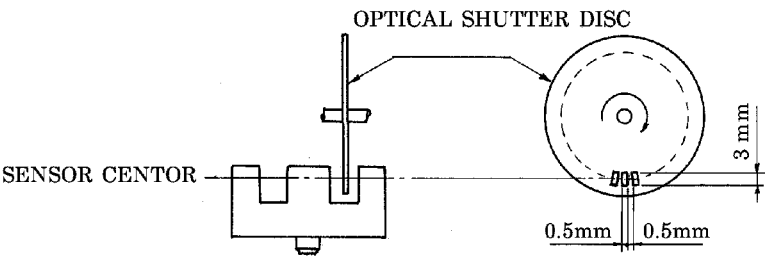
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	VCC	6	V
Output Voltage	VO	VCC+0.5	V
Low Level Output Current	IOL	50	mA
Operating Temperature Range	Topr	−25~75	°C
Storage Temperature Range	Tstg	−40~85	°C

ELECTRICAL CHARACTERISTICS (Unless Otherwise Specified, Ta = −25~75°C, VCC = 5 ± 0.5V)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage		VCC	—	4.5	—	5.5	V
Supply Current	Low Level	ICCL	Shutter In	—	—	30	mA
	High Level	ICCH	Without Shutter	—	—	30	
Low Level Output Voltage	CH. 1	VOL1	Shutter In, IOL = 16mA	—	—	0.4	V
	CH. 2	VOL2	Shutter In, IOL = 16mA	—	—	0.4	
High Level Output Voltage	CH. 1	VOH1	Without Shutter	0.9VCC	—	—	
	CH. 2	VOH2	Without Shutter	0.9VCC	—	—	
Peak Emission Wavelength		λP	Ta = 25°C, LED Side	—	940	—	nm
Peak Sensitivity Wavelength		λP	Ta = 25°C, Photo IC Side	—	900	—	nm
Response Frequency		f	Ta = 25°C (Note)	3000	—	—	Hz
Rise Time		tr		—	2	—	μs
Fall Time		tf		—	0.03	—	

(Note) A value measured when the disc shown in the following figure was rotated. No DC current should be output.



PRECAUTION

Please be careful of the followings.

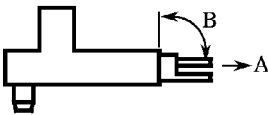
- 1. During 100 μ s after turning on V_{CC}, output voltage changes for stabilizing the inner circuit.
- 2. Install to the mount free of warp with the clamping torque 0.59N·m max
- 3. The container is made of polycarbonate. Polycarbonate is usually stable with acid, alcohol, and aliphatic hydrocarbons however, with peroxochemicals (such as benzene, toluene, and acetone), alkali, aromatic hydrocarbons, or chloric hydrocarbons, polycarbonate becomes cracked, swollen, or melted. Please take care when choosing a packaging material by referencing the table below.

<Chemicals to avoid with polycarbonate>

	PHENOMENON	CHEMICALS
A	Little deterioration but staining	• nitric acid (low concentration), hydrogen peroxide, chlorine
B	Cracked, crazed, or swollen	• acetic acid (70% or more) • gasoline • methyl ethyl ketone, ethyl acetate, butyl acetate • ethyl methacrylate, ethyl ether, MEK • acetone, m-amino alcohol, carbon tetrachloride • carbon disulfide, trichloroethylene, cresol • thinners, oil of turpentine • triethanolamine, TCP, TBP
C	Melted { } : Used as solvent.	• concentrated sulfuric acid • benzene • styrene, acrylonitrile, vinyl acetate • ethylenediamine, diethylenediamine • {chloroform, methyl chloride, tetrachloromethane, dioxane, 1, 2-dichloroethane}
D	Decomposed	• ammonia water • other alkali

TERMINAL STRENGTH (Ta = 25°C)

CHARACTERISTIC	TEST CONDITION		LIMIT
PULL	DIRECTION	A	NO DEFECT OF ELECTRICAL CHARACTERISTICS
	WEIGHT	19.6N	
	TIME	5s / ONCE	
BEND	DIRECTION	B	
	WEIGHT	9.8N	
	TIME	5s / THRICE	

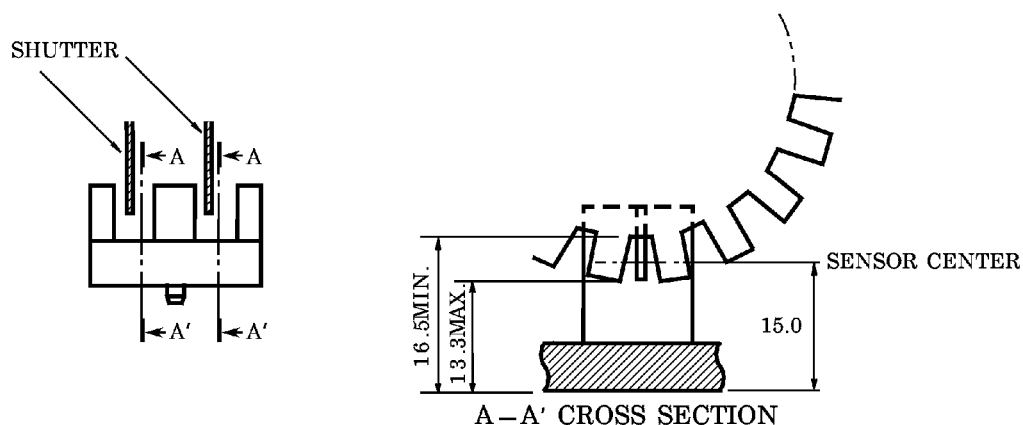


POSITIONING OF SHUTTER AND DEVICE

To operate correctly, make sure that the shutter and the device are positioned as shown in the figure below.

The shift pitch of the shutter must be set wider than the slit width of the device.

Determine the width taking the switching time into consideration.



RECOMMENDABLE MATCHED CONNECTOR

AMP (Japan), Ltd. made EI series connector (Standard type)

HOUSING	NATURAL COLOR	BLACK	BLUE	GREEN	RED
	171822-4	2-171822-4	4-171822-4	6-171822-4	8-171822-4
TERMINAL	TYPE No.	PRODUCT FORM	MATERIAL	AWG SIZE	INSULATION DIAMETER
	170204-1	LOOSEN	BRASS	AWG20~26	1.1~1.9mm
	170204-2		PHOSPHOR BRONZE		
	170262-1	LINKED	BRASS		
	170262-2		PHOSPHOR BRONZE		
	170205-1	LOOSEN	BRASS	AWG26~30	1.0~1.4mm
	170205-2		PHOSPHOR BRONZE		
	170263-1	LINKED	BRASS		
	170263-2		PHOSPHOR BRONZE		

AMP (Japan), Ltd. made EI series connector (Low profile type)

HOUSING	NATURAL COLOR	BLACK	BLUE	GREEN	RED
	172142-4	2-172142-4	4-172142-4	6-172142-4	8-172142-4
TERMINAL	TYPE No.	PRODUCT FORM	MATERIAL	AWG SIZE	INSULATION DIAMETER
	170369-1	LOOSEN	PHOSPHOR BRONZE	AWG22~26	1.1~1.9mm
	170354-1	LINKED			
	170370-1	LOOSEN		AWG26~30	1.0~1.5mm
	170355-1	LINKED			

For details of the connectors, please refer to the connector maker.

