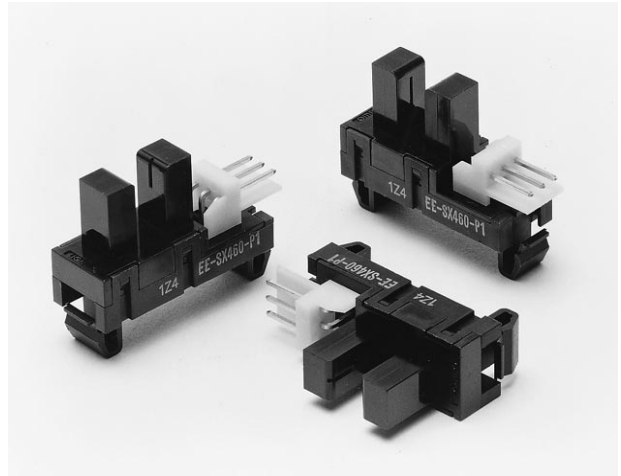
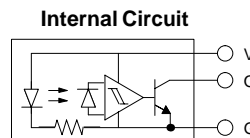
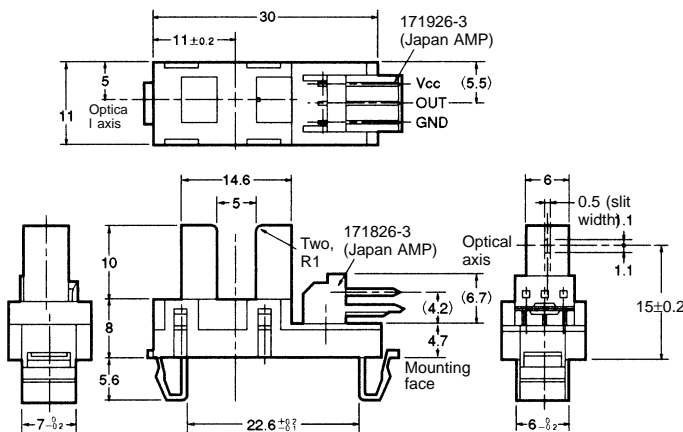


Transmissive

- Photo-IC output.
- Snap-in mounting model.
- Mounts to 0.8- to 1.6-mm-thick panels.
- With a 5-mm-wide slot.
- Photo IC output signals directly connect to C-MOS and TTL.
- Connects to Omron EE-I005 and AMP's EI series connectors



Dimensions



Terminal No.	Name
V	Supply voltage (Vcc)
O	Output (OUT)
G	Ground (GND)

Unless otherwise specified, the tolerances are as shown below.

Dimensions	Tolerance
3 mm max.	±0.3
3 < mm ≤ 6	±0.375
6 < mm ≤ 10	±0.45
10 < mm ≤ 18	±0.55
18 < mm ≤ 30	±0.65

Recommended Connectors:
 Japan AMP 171822-3 (crimp-type connector)
 172142-3 (crimp-type connector)
 OMRON EE-1005 (with harness)

Specifications

■ Absolute Maximum Ratings (Ta = 25°C)

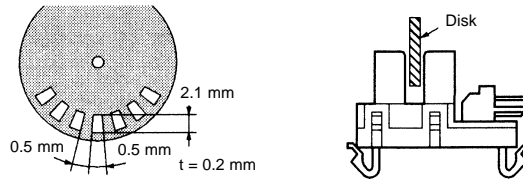
Item	Symbol	Rated value
Supply voltage	V _{CC}	10 V
Output voltage	V _{OUT}	28 V
Output current	I _{OUT}	16 mA
Permissible output dissipation	P _{OUT}	250 mW (see note)
Operating temperature	T _{opr}	-20°C to 75°C
Storage temperature	T _{stg}	-40°C to 85°C
Soldering temperature	T _{sol}	---

Note: Refer to the temperature rating chart if the ambient temperature exceeds 25°C.

Electrical and Optical Characteristics (Ta = 25°C, VCC = 5 V±10%)

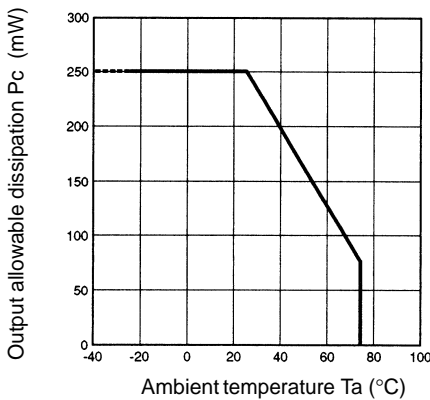
Item	Symbol	Value	Condition
Current consumption	I _{CC}	30 mA max.	With and without incident
Low-level output voltage	V _{OL}	0.3 V max.	I _{OUT} = 16 mA with incident
High-level output voltage	V _{OH}	(V _{CC} × 0.9) V min.	V _{OUT} = V _{CC} without incident, R _L = 47 kΩ
Response frequency	f	3 kHz min.	V _{OUT} = V _{CC} , R _L = 47 kΩ (see note)

Note: The value of the response frequency is measured by rotating the disk as shown below.

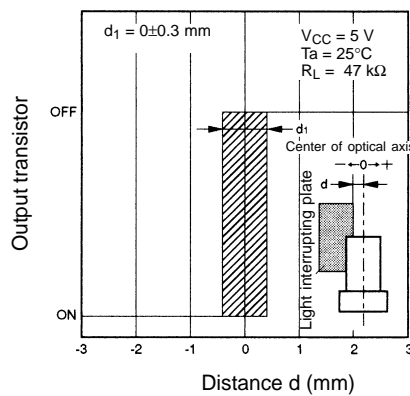


Engineering Data

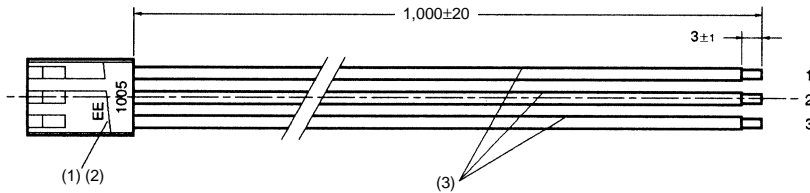
Output Allowable Dissipation vs. Ambient Temperature Characteristics



Sensing Position Characteristics (Typical)



EE-1005 Connector

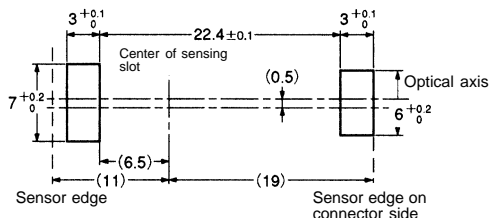


No.	Name	Model	Quantity	Maker
1	Receptacle housing	171822-3	1	Japan AMP
2	Receptacle contact	170262-1	3	Japan AMP
3	Lead wire	UL1007 AWG24	3	---

Wiring

Connector circuit no.	Lead wire color
1	Red
2	Orange
3	Yellow

Recommended Mounting Hole Dimensions and Mounting and Dismounting Method



The Opto-Switch can be mounted to 0.8- to 1.6-mm-thick panels.

Refer to the above mounting hole dimensions and open the mounting holes in the panel to which the Opto-Switch will be mounted.

Insert into the holes the Opto-Switch's mounting portions with a force of three to five kilograms but do not press in the Opto-Switch at one time. The Opto-Switch can be easily mounted by inserting the mounting portions halfway and then slowly pressing the Opto-Switch onto the panel.

Dismounting is achieved by either hand (below panel), or screwdriver (above panel).