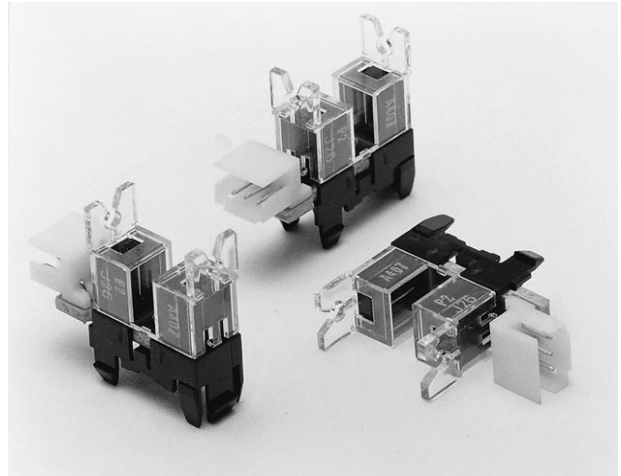
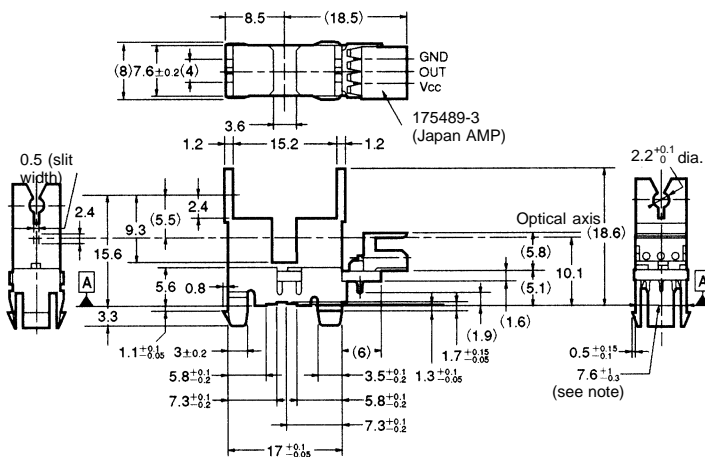


Actuator Mounted

- Photo-IC output.
- A custom actuator can be attached.
- Snap-in mounting model.
- Mounts to 1.0-, 1.2- and 1.6-mm-thick panels.
- High resolution with a 0.5-mm-wide sensing aperture.
- With a 5-mm-wide slot.
- Photo IC output signals directly connect to logic circuit and TTL.
- Connects to Japan AMP's CT-series connectors.

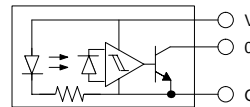


Dimensions



Note: The dimension is specified by datum A only.

Internal Circuit



Terminal No.	Name
V	Supply voltage (V _{CC})
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 175778-3 (crimp-type connector)
 173977-3 (press-fit connector)

Specifications

■ Absolute Maximum Ratings (Ta = 25°C)

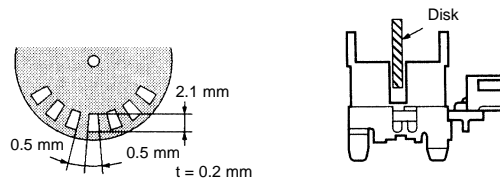
Item	Symbol	Rated value
Supply voltage	V _{CC}	7 V
Output voltage	V _{OUT}	28 V
Output current	I _{OUT}	16 mA
Permissible output dissipation	P _{OUT}	250 mW (see note)
Operating temperature	T _{opr}	-20°C to 75°C
Storage temperature	T _{stg}	-40°C to 85°C
Soldering temperature	T _{sol}	---

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

■ Electrical and Optical Characteristics (Ta = 25°C)

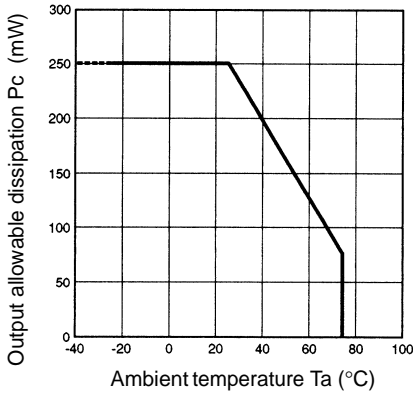
Item	Symbol	Value	Condition
Current consumption	I _{CC}	16.5 mA max.	With and without incident
Low-level output voltage	V _{OL}	0.35 V max.	I _{OUT} = 16 mA with incident
High-level output voltage	V _{OH}	(V _{CC} × 0.9) V min.	V _{OUT} = V _{CC} without incident, R _L = 47 kΩ
Response frequency	f	3 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.

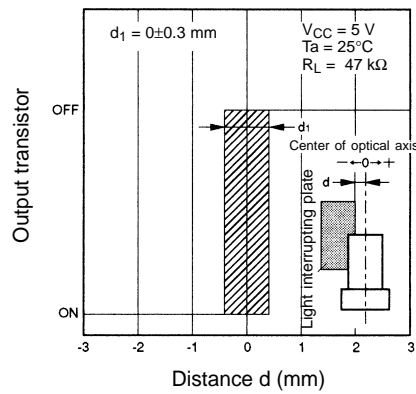


Engineering Data

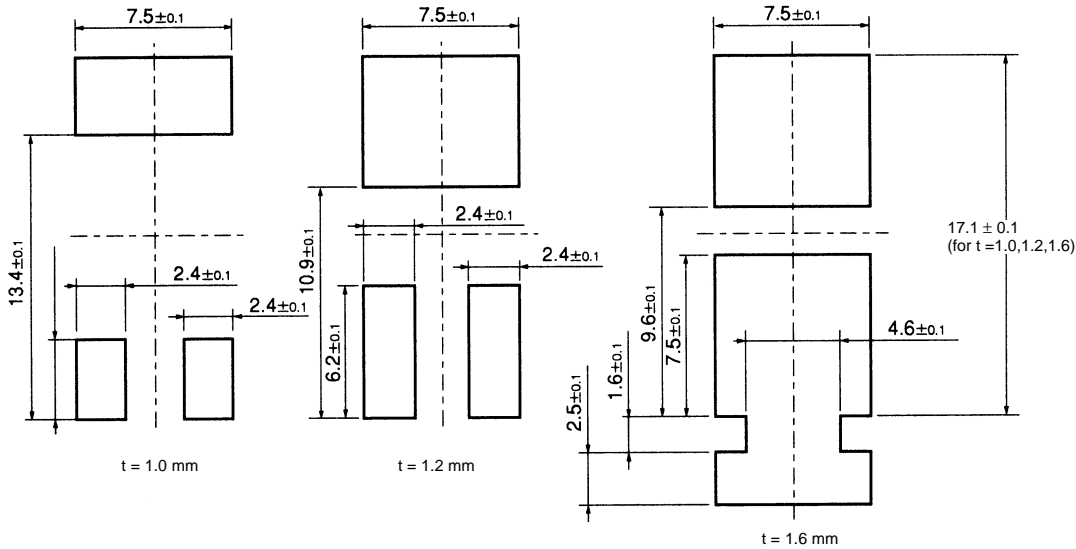
Output Allowable Dissipation vs. Ambient Temperature Characteristics



Sensing Position Characteristics (Typical)



Recommended Mounting Holes

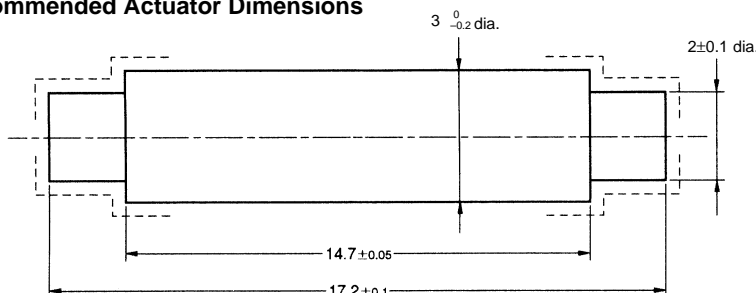


- When mounting the Opto-Switch to a panel with a hole opened by pressing, make sure that the hole has no burrs. The mounting strength will decrease if the hole has burrs.
- When mounting the Opto-Switch to a panel with a hole opened by pressing, be sure to mount on the pressing side of the panel.
- The mounting strength of the Opto-Switch will increase if it is mounted to a panel with a hole that is only a little larger than the size of the Opto-Switch, in which case, however, it will be difficult to mount the Opto-Switch to the panel. The mounting strength of the Opto-Switch will decrease if mounted to a panel with a hole

that is comparatively larger than the size of the Opto-Switch, in which case, however, it will be easy to mount the Opto-Switch to the panel. When mounting to a panel, open an appropriate hole for the Opto-Switch according to the application.

- After mounting the Opto-Switch to any panel, make sure that it does not wobble.
- When mounting the to a molding with a hole, make sure that the edges of the hole are sharp enough, otherwise the Opto-Switch may come fall out.

Recommended Actuator Dimensions



- Note:**
1. Make sure that the portions marked with dotted lines have no burrs.
 2. The material of the actuator must be selected by considering the infrared permeability of the actuator.