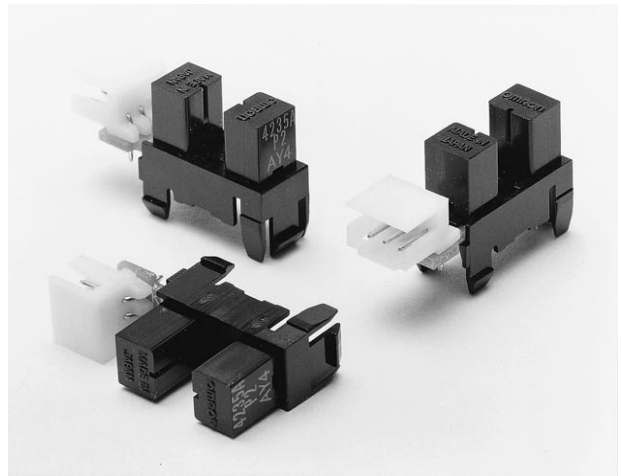
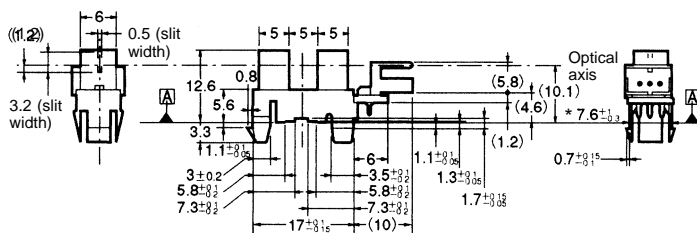
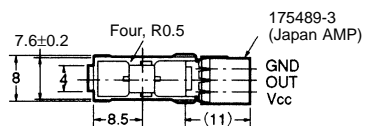


Transmissive

- Photo-IC output.
- 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 C-MOS and TTL.
- Connects to Japan AMP's CT-series connectors.

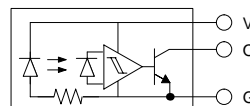


Dimensions



Note: The asterisked dimension is specified by datum A only.

Internal Circuit



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 175778-3 (crimp-type connector)
 173977-3 (press-fit connector)

Specifications

■ Absolute Maximum Ratings (Ta = 25°C)

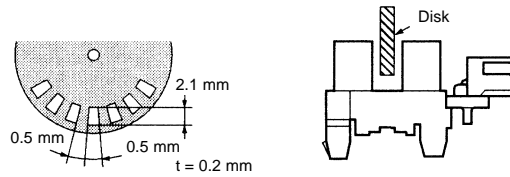
Item	Symbol	Rated value
Supply voltage	V _{CC}	7 V
Output voltage	V _{OUT}	28 V
Output current	I _{OUT}	16 mA
Permissible output dissipation	P _{OUT}	250 mW (see note)
Operating temperature	T _{opr}	-25°C to 75°C
Storage temperature	T _{stg}	-40°C to 85°C
Soldering temperature	T _{sol}	---

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

■ Electrical and Optical Characteristics (Ta = 25°C, VCC = 5 V)

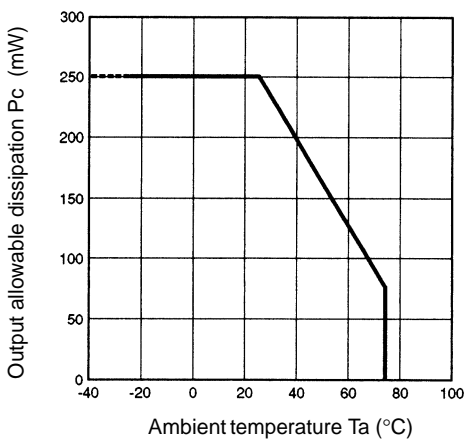
Item	Symbol	Value	Condition
Current consumption	ICC	16.5 mA max.	With and without incident
Low-level output voltage	VOL	0.35 V max.	IOUT = 16 mA with incident
High-level output voltage	VOH	(VCC x 0.9) V min.	VOUT = VCC without incident, RL = 47 kΩ
Response frequency	f	3 kHz min.	VOUT = VCC, RL = 47 kΩ (see note)

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

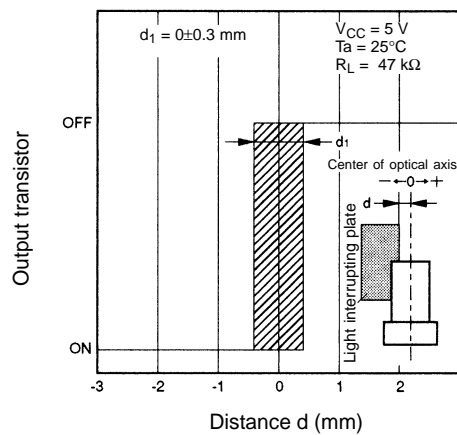


Engineering Data

Output Allowable Dissipation vs. Ambient Temperature Characteristics

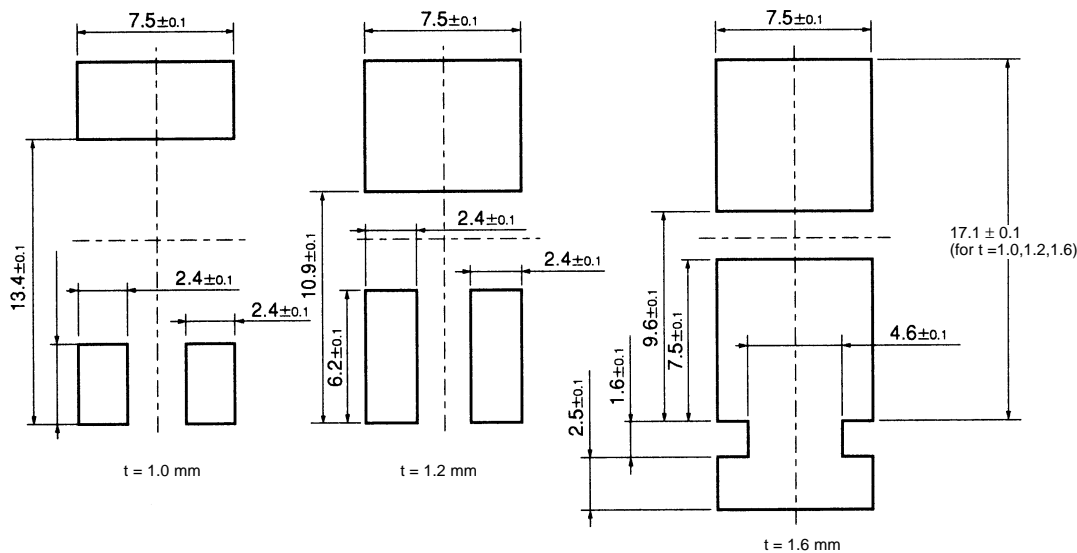


Sensing Position Characteristics (Typical)



■ Recommended Mounting Holes

(also applies to EE-SX1235A-P2)



- 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 the 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 the Opto-Switch to a panel, open an appropriate hole according to the application.

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