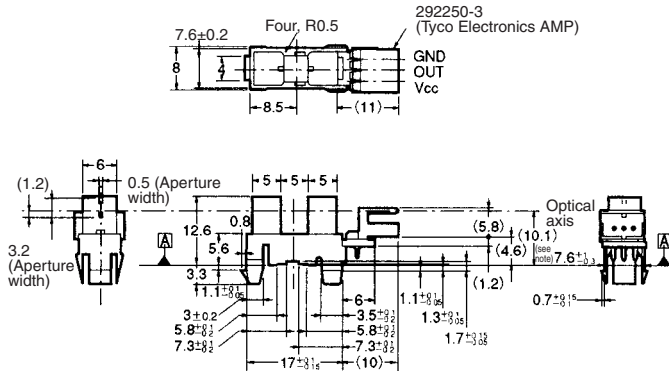


Photomicrosensor (Transmissive) EE-SX4235A-P2

⚠ Be sure to read *Precautions* on page 25.

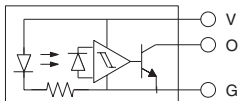
■ Dimensions

Note: All units are in millimeters unless otherwise indicated.



Note: The dimension is specified by datum A only.

Internal Circuit



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

Terminal No.	Name
V	Power supply (V _{CC})
O	Output (OUT)
G	Ground (GND)

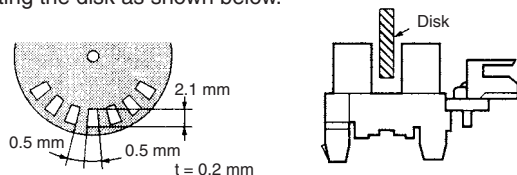
Recommended Mating Connectors:

Tyco Electronics AMP 179228-3 (crimp connector)
175778-3 (crimp connector)
173977-3 (press-fit connector)

■ Electrical and Optical Characteristics (Ta = 25°C, V_{CC} = 5 V ±10%)

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.



■ Features

- 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 with C-MOS and TTL.
- Connects to Tyco Electronics AMP's CT-series connectors.

■ Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Rated value	
Power 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)	
Ambient temperature	Operating	T _{opr}	-25°C to 75°C
	Storage	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.

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