

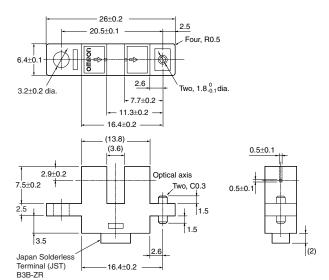
Photo IC Output Photomicrosensor (Transmissive) **FF-SX3148-P1**

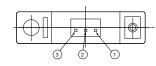
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Be sure to read Precautions on page 24.

Dimensions

Note: All units are in millimeters unless otherwise indicated.





Unless otherwise specified, the tolerances are as shown below.

Dimensions	Tolerance
3 mm max.	±0.200
3 < mm ≤ 6	±0.240
6 < mm ≤ 10	±0.290
10 < mm ≤ 18	±0.350
18 < mm ≤ 30	±0.420

Terminal No. Name

1 Power supply (Vcc)

2 Output (OUT)
3 Ground (GND)

Recommended Mating Connectors:

JST (Japan Solderless Terminal)

ZHR-3 Series (crimp connector)
03ZR Series (press-fit connector)

■ Features

- A boss on one side enables securing the Sensor with one M2 or M3
- Sensor can be installed from either top of bottom of mounting plate.
- High resolution both vertically and horizontally (slot dimensions: 0.5 x 0.5 mm)
- 3.6-mm-wide slot.
- Photo-IC output connects directly to CMOS and TTL devices.
- Applicable to the ZH and ZR Connector Series from JST (Japan Solderless Terminal).

■ Absolute Maximum Ratings (Ta = 25°C)

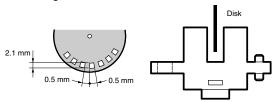
ltem		Symbol	Rated value
Power supply voltage		V _{CC}	6 V
Output voltage		V _{OUT}	28 V
Output current		I _{OUT}	16 mA
Permissible output dissipation		P _{OUT}	250 mW (see note)
Ambient temperature	Operating	Topr	–20°C to 75°C
	Storage	Tstg	–40°C to 85°C
Soldering temperature		Tsol	

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

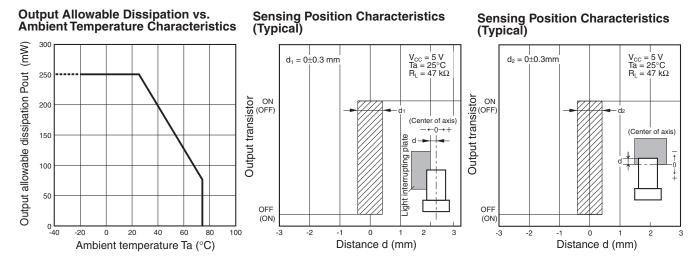
■ Electrical and Optical Characteristics (Ta = 25°C, V_{cc} = 5 V ±10%)

Item	Symbol	Value	Condition
Current consumption	I _{cc}	30 mA max.	With and without incident
Low-level output voltage	V _{OL}		I _{OUT} = 16 mA without incident
High-level output voltage	V _{OH}		$V_{\text{OUT}} = V_{\text{CC}}$ with incident $R_{\text{L}} = 47 \text{ k}\Omega$
Response frequency	f	3 kHz min.	$V_{OUT} = V_{CC}$, $R_L = 47 \text{ k}\Omega$ (see note)

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



■ Engineering Data



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