# OMRON

# Transmissive SX3 / SX4 series

EE-SX4009-P10 Photomicrosensor (Transmissive)

- Screw-mounting model.
- High resolution with a 0.5-mm-wide sensing aperture.
- With a 5-mm-wide groove.
- Photo IC output signals directly connect with C-MOS and TTL.
- Connects to US Molex connectors.



## RoHS.

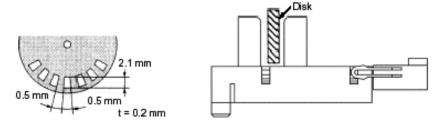
### Absolute Maximum Ratings (Ta = 25°C)

Item		Symbol	Rated value
Power supply voltage		Vcc	10 V
Output voltage		Vout	28 V
Output current		Ιουτ	16 mA
Permissible output dissipation		Роит	250 mW (see note)
Ambient temperature	Operating	Topr	-25°C to 75°C
	Storage	Tstg	-40°C to 85°C
Soldering temperature		Tsol	

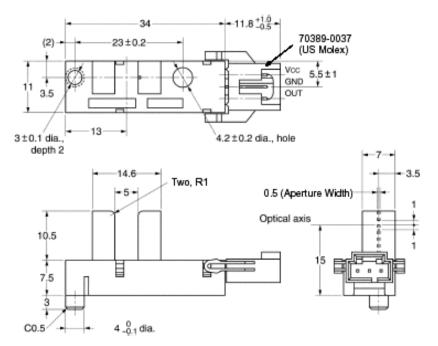
#### Electrical and Optical Characteristics (Ta = $25^{\circ}C$ , VCC = $5 V \pm 10\%$ )

Item	Symbol	Value	Condition
Current consumption	Icc	30 mA max.	With and without incident
Low-level output voltage	Vol	0.3 V max.	IOUT = 16  mA with incident
High-level output voltage	Vон	(Vcc × 0.9) V min.	Vout = Vcc without incident, RL = 47 k $\Omega$
Response frequency	f	3 kHz min.	Vout = Vcc, RL = 47 k $\Omega$ (see note)

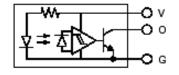
Note : The value of the response frequency is measured by rotating the disk as shown below.



Note: All units are in millimeters unless otherwise indicated.



Internal Circuit



Terminal No.	Name
V	Power supply (Vcc)
0	Output (OUT)
G	Ground (GND)

Unless otherwise specified, the tolerances are as shown below.

Dimensions	Tolerance
4 mm max.	±0.2
4 < mm ≤ 16	±03
16 < mm ≤ 63	±05