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[Omron](#)
[EE-SA401-P2](#)

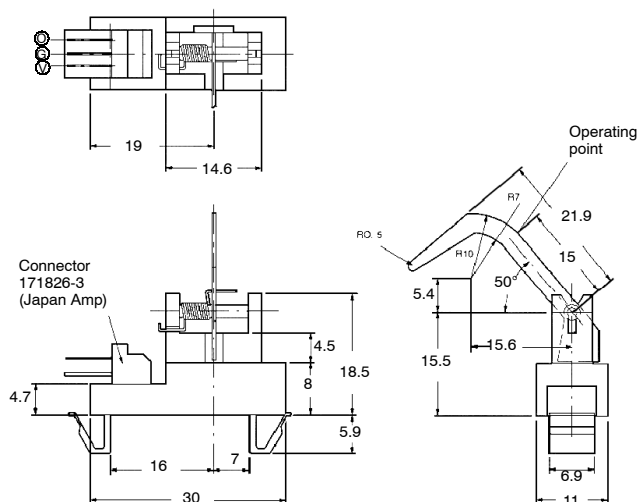
For any questions, you can email us directly:
sales@integrated-circuit.com

OMRON EE-SA401-P2

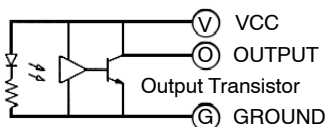
Photomicrosensor (Actuator)

■ Dimensions

Note: All units are in millimeters unless otherwise indicated.



Internal Circuit



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

■ Ordering Information

Description	Part number
Photomicrosensor (Actuator)	EE-SA401-P2

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

Item	Symbol	Value	Condition
Current consumption	I_{CC}	30 mA max.	With and without object
Low-level output voltage	V_{OL}	0.3 V max.	$I_{OUT} = 16$ mA with object
High-level output voltage	V_{OH}	$(V_{CC} \times 0.9)$ V min.	$V_{OUT} = V_{CC}$, $R_L = 47$ k Ω with object

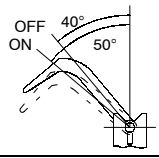
■ Features

- Easy snap-in mounting; no mounting hardware required.
- Easy wiring with commercially available connector.
- Includes Schmitt trigger circuit.

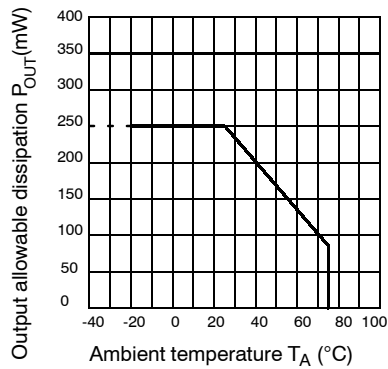
■ Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Rated value	
Power supply voltage	V_{CC}	10 VDC	
Output voltage	V_{OUT}	28 V	
Output current	I_{OUT}	16 mA	
Permissible output dissipation	P_{OUT}	250 mW	
Ambient temperature	Operating	T_{opr}	-20°C to 75°C
	Storage	T_{stg}	-30°C to 85°C

■ **Mechanical Characteristics**

Item	Characteristics	Remarks
Actuator operation	OFF-point: $40 \pm 3^\circ$ ON-point: $50 \pm 3^\circ$	
Operating torque	1.5 gf•cm max.	When actuator starts to move
Life expectancy	1,000,000 operations min.	Under no-load condition, repeat ON-OFF operation
Vibration	Mechanical durability: 5 to 50, and then 5 Hz (peak acceleration 1 G) 1 cycle time: 60 s Operation time: 60 min. No remarks appear in X, Y, or Z directions	With packing box
Terminal strength	Tension with: 2 kgf•cm, for 5 s Bending: 1 kgf•cm/1 time, for 5 s	No remarks appear on electrical characteristics
Operating range	T_A : 0 to 50 R_H : 10 to 90%	

■ **Engineering Data**



NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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