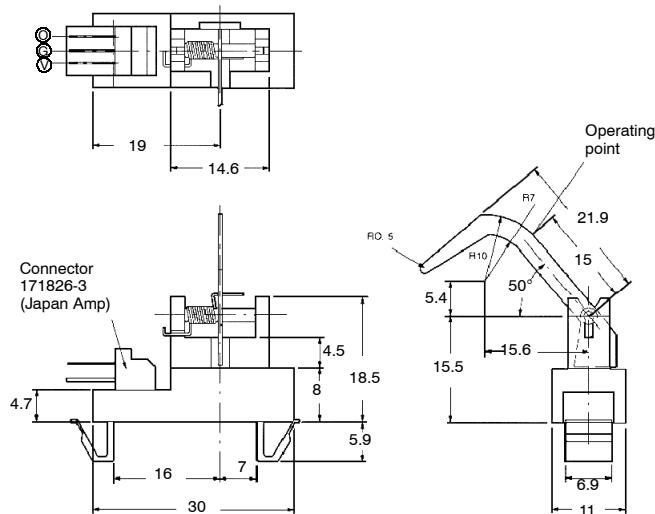
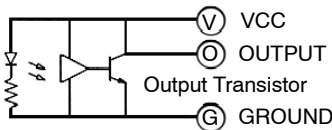


### ■ Dimensions

**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 $\Omega$ with object

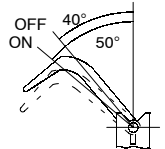
### ■ Features

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

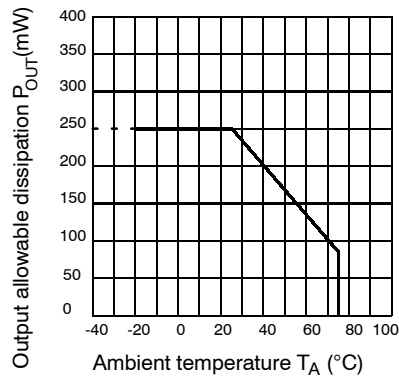
### ■ Absolute Maximum Ratings (Ta = 25°C)

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
<b>Actuator operation</b>	OFF-point: $40 \pm 3^\circ$ ON-point: $50 \pm 3^\circ$	
<b>Operating torque</b>	1.5 gf•cm max.	When actuator starts to move
<b>Life expectancy</b>	1,000,000 operations min.	Under no-load condition, repeat ON-OFF operation
<b>Vibration</b>	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
<b>Terminal strength</b>	Tension with: 2 kgf•cm, for 5 s Bending: 1 kgf•cm/1 time, for 5 s	No remarks appear on electrical characteristics
<b>Operating range</b>	$T_A$ : 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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**OMRON**<sup>®</sup>

**OMRON ELECTRONICS LLC**

One East Commerce Drive  
Schaumburg, IL 60173

**847-882-2288**

**OMRON CANADA, INC.**

885 Milner Avenue  
Toronto, Ontario M1B 5V8

**416-286-6465**

**OMRON ON-LINE**

Global – <http://www.omron.com>

USA – <http://www.omron.com/oei>

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