



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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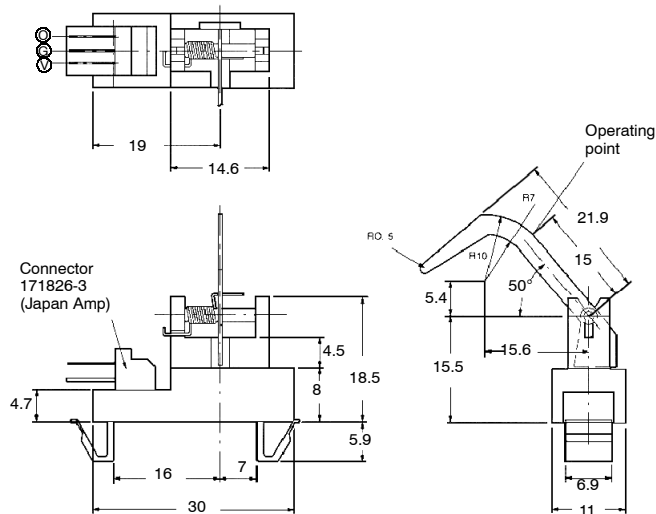
OMRON

EE-SA401-P2

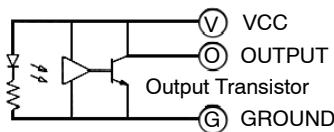
Photomicrosensor (Actuator)

■ Dimensions

Note: All units are in millimeters unless otherwise indicated.



Internal Circuit



Terminal No.	Name
V	Power supply (V _{CC})
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} × 0.9) V min.	V _{OUT} = V _{CC} , R _L = 47 kΩ with object

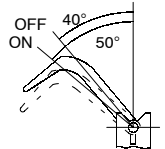
■ Features

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

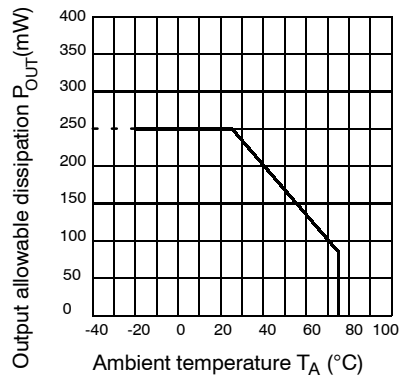
■ Absolute Maximum Ratings (Ta = 25°C)

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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