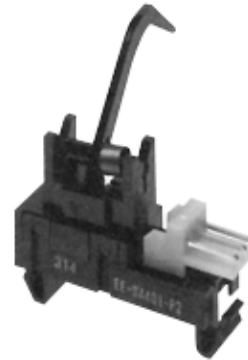


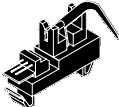
EE-SA401-P2

Photo IC Configuration Featuring Actuator with Reset Spring

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



Ordering Information

Appearance	Sensing method	Output configuration	Weight	Applicable mating connector	Part number
	Actuator	Light-ON	Approx. 3.1 g	EE-1005	EE-SA401-P2

Specifications

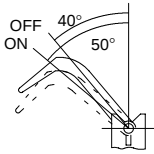
■ ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ (77°F))

Item		Symbol	Rated value
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 (-4°F to 167°F)
	Storage	T_{stg}	-30°C to 85°C (-22°F to 185°F)

■ ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ (77°F))

Item	Symbol	Value	Condition
Low level output voltage	V_{OL}	0.3 V max.	$I_{OUT} = 16$ mA without 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
Current consumption	I_{CC}	30 mA max.	With or without object

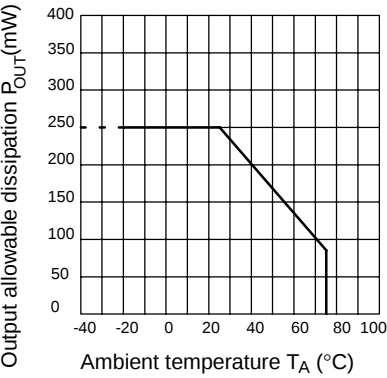
MECHANICAL CHARACTERISTICS

Item	Characteristics	Remarks
Actuator operation	OFF-point: 40 ±3° ON-point: 50 ±3°	
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

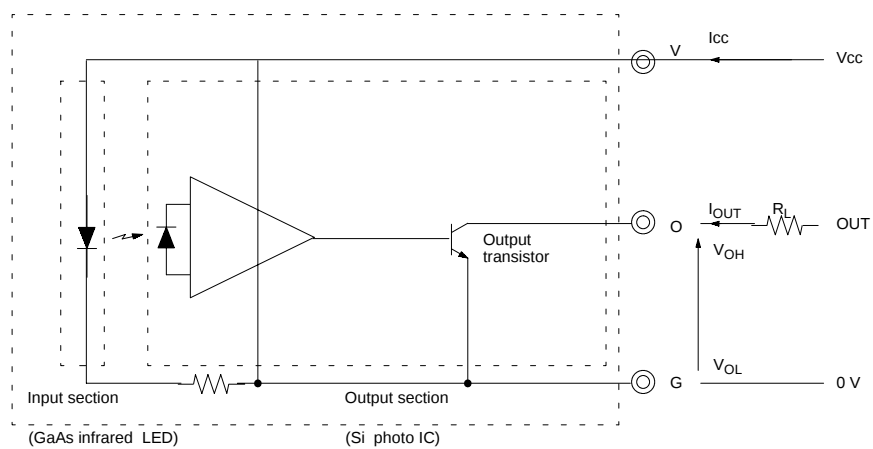
Note: The operating conditions of the photomicrosensor must be within the absolute maximum rating ranges.

TEMPERATURE CHARACTERISTICS

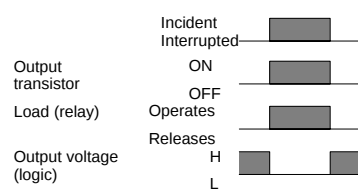


Operation

INTERNAL/EXTERNAL CIRCUIT DIAGRAM



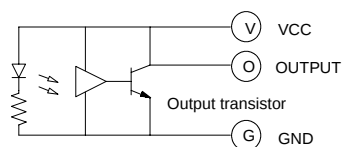
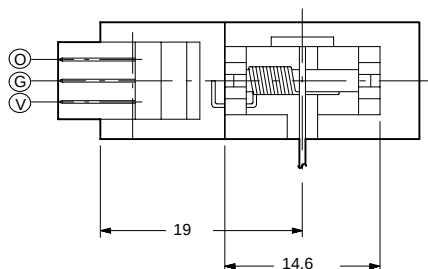
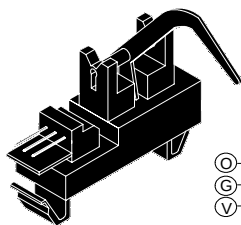
TIMING CHART



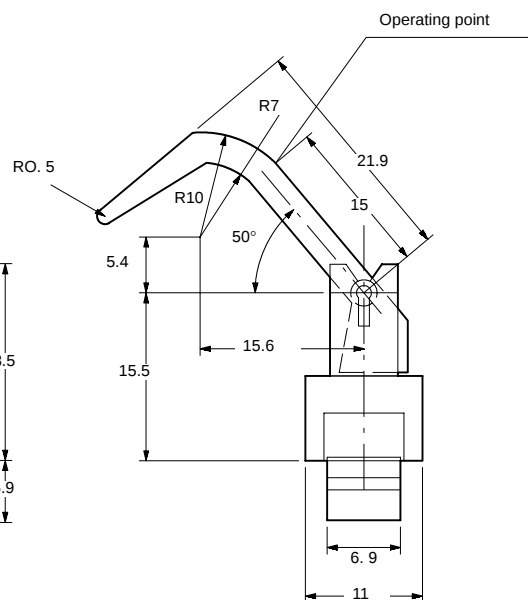
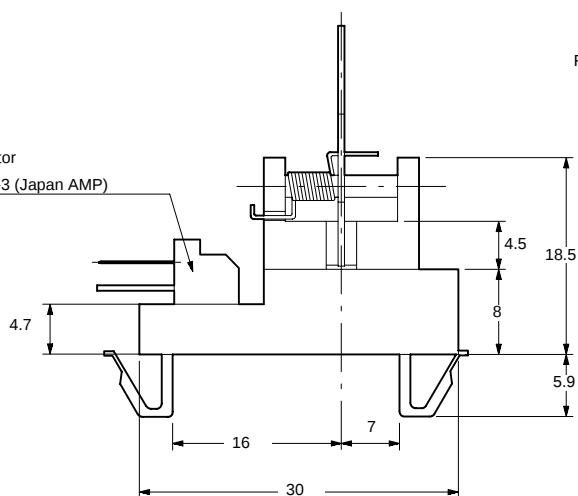
Dimensions

Unit: mm (inch)

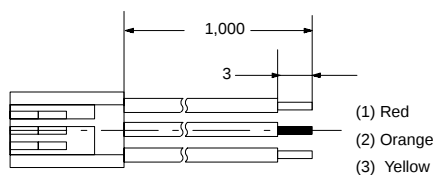
EE-SA401-P2



Connector
171826-3 (Japan AMP)



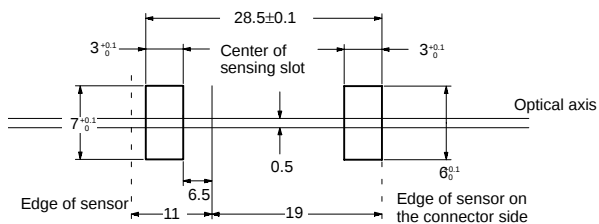
EE-1005 CONNECTOR



Contact AMP for availability of AMP mating connectors.

Mounting Holes

Note: Refer to the Technical Information section for snap-in mounting procedure.



Precautions

Refer to the Technical Information Section for general precautions.

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

OMRON[®]
OMRON ELECTRONICS, INC.
One East Commerce Drive
Schaumburg, IL 60173
1-800-55-OMRON

OMRON CANADA, INC.
885 Milner Avenue
Scarborough, Ontario M1B 5V8
416-286-6465