

# 32356-SW

## Photoelectric Sensor

## E3JK

### Small General-purpose Photoelectric Sensor with Built-in Power Supply

- Built-in amplifier accepts wide supply voltage range.
- Slim, space-saving construction measures only 50 x 50 x 17.4 mm.
- Relay outputs with long life expectancy and high switching capacity (3 A, 250 VAC).



## Ordering Information

### Relay Output Types

Item		Diffuse reflective	
Model	Light-ON mode	E3JK-DS30M1	
Polarized light beam		NA	
Sensing distance		30 cm	

## Specifications

### ■ Ratings/Characteristics

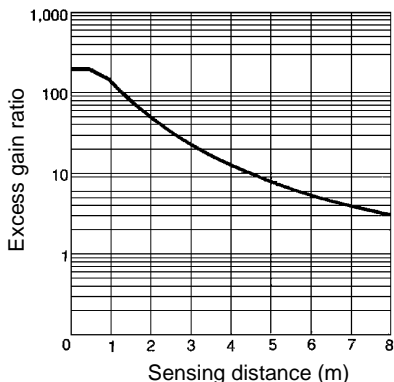
#### Amplifier Units

Item		E3JK-DS30	
Power supply voltage		12 to 24 VDC ±10%,	
Current consumption		2 W max.	
Sensing distance		30 cm	
Differential travel		20% max.	
Control Output	Relay output	3 A max. at 250 VAC ( $\cos\phi = 1$ ), 10 mA min. at 5 VDC	
Response time (ON, OFF)		30 ms max.	
Sensitivity		Adjustable	
Operation mode		Light-ON or Dark-ON	
Indicators		Light (red)	
Enclosure rating		IEC IP64, NEMA 1, 2, 12	
Material		Plastic	
Light source		Infrared LED	
Ambient temperature		Operating: -25°C to 55°C (with no icing)	

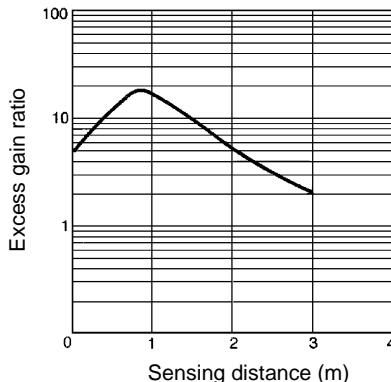
# Engineering Data

## Excess Gain Ratio

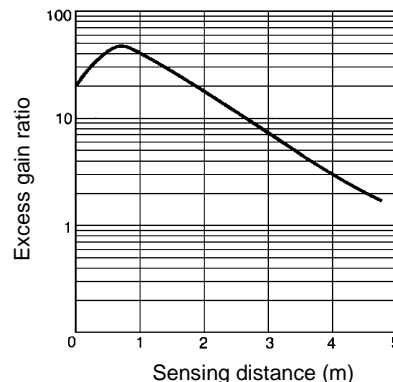
E3JK-5j j



E3JK-R2j j

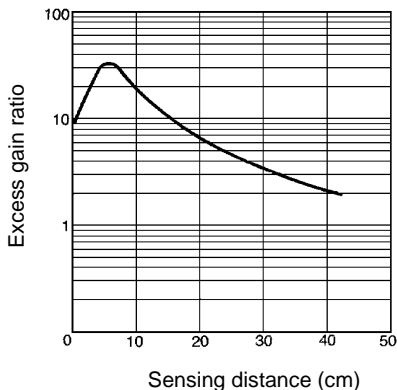


E3JK-R4j j

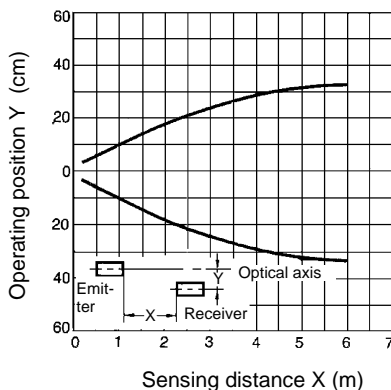


## Operating Range

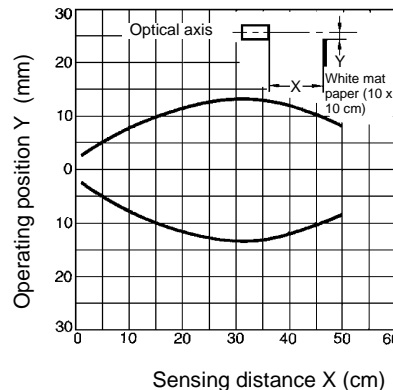
E3JK-DS30j j



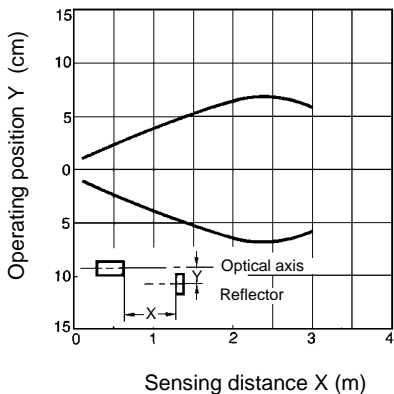
E3JK-5j j



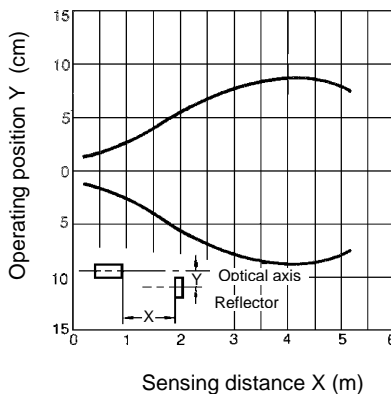
E3JK-DS30j j



E3JK-R2j j

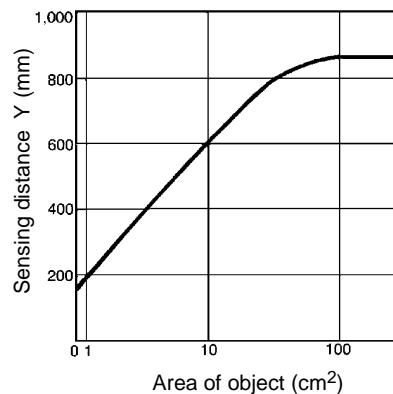


E3JK-R4j j



## Sensitivity

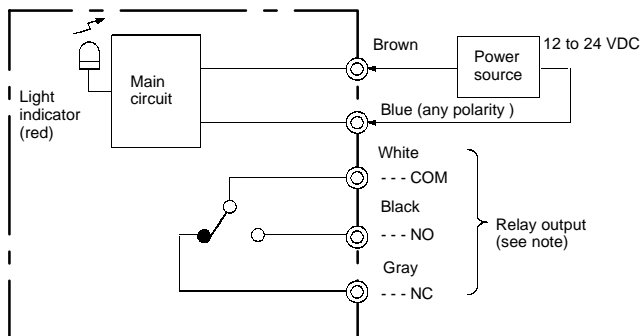
E3JK-DS30j j



# Operation

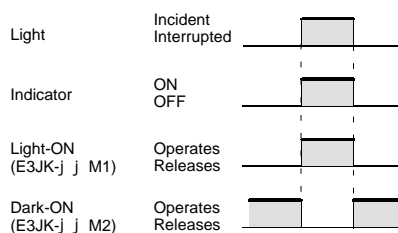
## Output Circuits

### Relay Output Types



## Timing Chart

### Relay Output Types

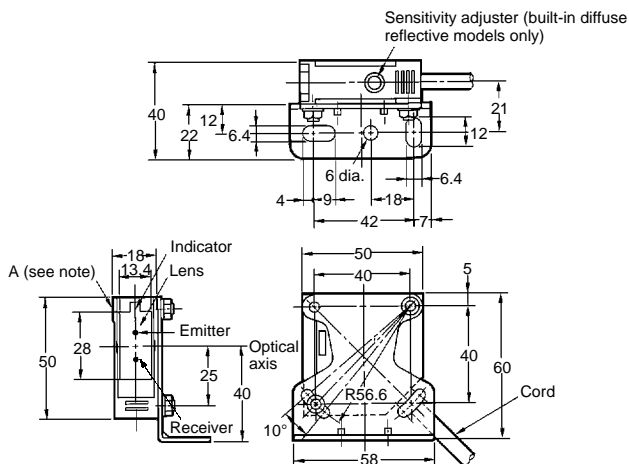
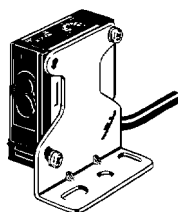


# Dimensions

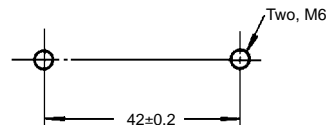
**Note:** All units are in millimeters unless otherwise indicated.

## E3JK-DS30

Weight: approx. 190 g



### Mounting Holes



**Note:** The mounting bracket (provided with two M4 x 20 screws) can be connected to side A.

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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