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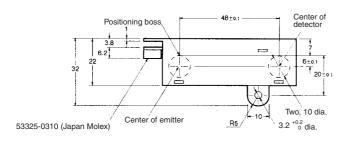
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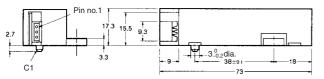


Multi-beam Sensor (1 Beam: 125 mm) **EY3A-112**

■ Dimensions

Note: All units are in millimeters unless otherwise indicated.





Pin no.	Remarks	Name
1	0	Output (OUT)
2	V	Power supply (Vcc)
3	G	Ground (GND)

Unless otherwise specified, the tolerances are as shown below.

Dimensions	Tolerance
3 mm max.	±0.3
3 < mm ≤ 6	±0.375
6 < mm ≤ 10	±0.45
10 < mm ≤ 18	±0.55
18 < mm ≤ 30	±0.65
30 < mm ≤ 50	±0.8
50 < mm ≤ 80	±0.95

Recommended Mating Connectors:

Japan Molex 51090-0300 (crimp connector) 52484-0310 (press-fit connector)

■ Features

- Ensures higher sensitivity and external light interference resistivity than any other photomicrosensor.
- Narrow sensing range ensures stable sensing of a variety of sensing objects.

■ Absolute Maximum Ratings (Ta = 25°C)

Item		Symbol	Rated value
Power supply voltage		V _{CC}	7 V
Load voltage		V _{OUT}	7 V
Load current		I _{OUT}	10 mA
Ambient tem- perature	Operating	Topr	0°C to 65°C
	Storage	Tstg	–15°C to 70°C

Note: Make sure there is no icing or condensation when operating the Sensor.

■ Electrical and Optical Characteristics (Ta = 0°C to 65°C)

Item	Value	Condition	
Power supply voltage	5 V ±5%		
Current consumption	50 mA max.	$V_{CC} = 5 \text{ V}, R_L = \infty$	
Peak current consumption	200 mA max.	$V_{CC} = 5 \text{ V}, R_L = \infty$	
Low-level output voltage	0.6 V max.	V _{CC} = 5 V, I _{OL} = 4 mA (see note 1)	
High-level output voltage	3.5 V min.	$V_{CC} = 5 \text{ V}, R_L = 4.7 \text{ k}\Omega \text{ (see note 2)}$	
Response delay time (High to Low)	35 ms max.	The time required for the output to become "Lo" after placing sensing object.	
Response delay time (Low to high)	20 ms max.	The time required for the output to become "Hi" after removing sensing object.	

Note: 1. These conditions are for the sensing of lusterless paper with an OD of 0.6 maximum located at the correct sensing position of the Sensor as shown in the optical path arrangement on page page 14.

2. These conditions are for the sensing of the paper supporting plate with an OD of 0.05 located using the glass plate without paper as shown in the optical path arrangement on page page 14.

■ Characteristics (Paper Table Glass: t = 6 mm max., Transparency Rate: 90% min.) (Ta =0°C to 65°C)

Item	Characteristic value
Sensing density	Lusterless paper with an OD of 0.6 max. (sensing distance: 125 mm) (see note)
Non-sensing distance	185 mm (from the top of the sensor), OD: 0.05
Paper sensing distance	125 mm (from the top of the sensor)
Ambient illumination	Sunlight: 3,000 //x max., fluorescent light: 2,000 //x max.

Note: 1. The data shown are initial data.

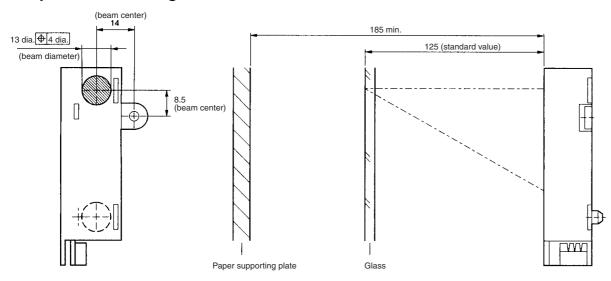
2. Optical darkness (OD) is defined by the following formula:

$$OD = -\log_{10} \left(\frac{P_{OUT}}{P_{IN}} \right)$$

P_{IN} (mW): Light power incident upon the document

 P_{OUT} (mW): Reflected light power from the document

■ Optical Path Arrangement



■ Engineering Data

Distance Characteristics (Estimated Lower-limit Value)

