

Cutting-edge Technologies Give This Color Mark Sensor Its Compact Size and Superior Performance.

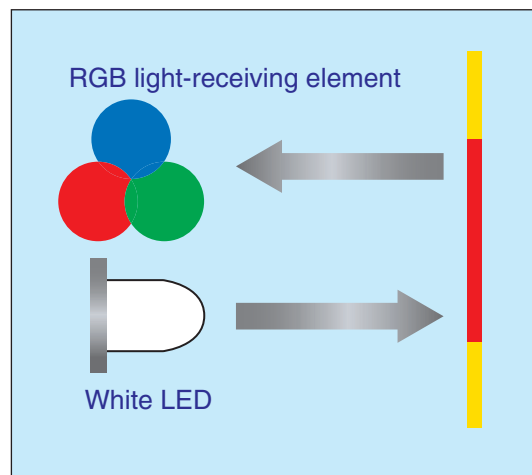
■ Improved Color-difference Discrimination, RGB Signal Processing

Discriminates fine color differences which was difficult for previous OMRON models.

Teaching enables automatic selection of ideal colors.

Plus, response is a fast 50 μ s for both ON and OFF operation.

Patent pending



■ Easy Setting with 2-point and Automatic Teaching

● 2-point Teaching (Manual)

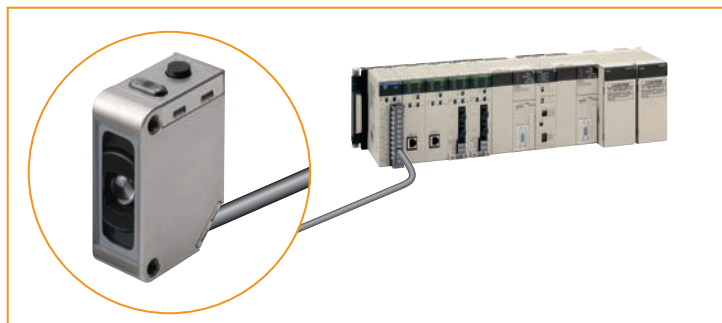
Simply aim the beam spot at the mark portion and background portion, and press the teaching button.



● Automatic Teaching (Remote)

Send a pulse to the remote control input and have the mark pass by seven times for automatic teaching.

(Note: There is no answer-back output.)



E3ZM-V

Industry's Smallest Color Mark Sensor



- Excellent space savings. (Reduced by 90% compared with previous OMRON models.)
- Improved color-difference discrimination with white LED and RGB signal processing.
- Equipped with two types of teaching: 2-point teaching and automatic teaching.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

Sensor [Refer to *Dimensions on page 13.*]

White light

Sensing method	Appearance	Connection method	Sensing distance	Model	
				NPN output	PNP output
Mark Sensor (Diffuse reflective)		Pre-wired (2 m)	12±2 mm*	E3ZM-V61 2M	E3ZM-V81 2M
		Connector (M8, 4 pins)		E3ZM-V66	E3ZM-V86

* A deviation of ±2 mm (typical value) can be handled for combinations of white, yellow, and black. Refer to page 7 for the detection capability for other color combinations.

Accessories

Sensor I/O Connectors (Sockets on One Cable End)

(Models for Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.)

[Refer to *Dimensions on XS3.*]

Size	Cable	Appearance	Cable type	Model	
M8 (4 pins)	Standard	Straight *1	2 m	4-wire	XS3F-E421-402-A
			5 m		XS3F-E421-405-A
		L-shaped *1*2	2 m		XS3F-E422-402-A
			5 m		XS3F-E422-405-A

Note: The outer cover of the cable is made of PVC (polyvinyl chloride), the nut is SUS316L, and the degree of protection is IP67. When high-pressure washing will be used, select an I/O Connector that has IP69K degree of protection.

*1. The connector will not rotate after connecting.

*2. The cable is fixed at an angle of 180° from the sensor emitter/receiver surface.