

# OMRON

# Product Discontinuation Notices

August 1, 2011

**Photoelectric Sensors** 

No. 2011236E

# Discontinuation Notice of photoelectric Sensor E3M-V series

#### **Product Discontinuation**

**Recommended Replacement** 



E3M-V series



E3ZM-V series

Discontinuation date: The end of March, 2012

#### **Caution on recommended replacement**

- Dimensions are different. (Small size)

Please refer to "Dimensions" and "Mounting dimensions".

- The materials of the case are different.

E3M-V: PBT E3ZM-V: SUS

- Light source (wavelength) are different.

E3M-V: Green LED (525 nm) E3ZM-V: White LED (450 to 700 nm)

- It becomes code model from a connector model.

#### Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
E3ZM-V			*		**	**	*

\*\* : Fully compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

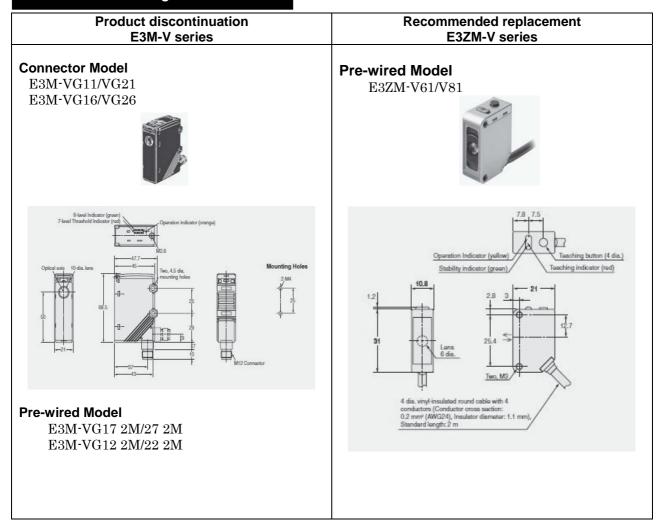
#### **Product Discontinuation and recommended replacement**

Product discontinuation	Recommended replacement
Model	Model
E3M-VG11	E3ZM-V61 2M
E3M-VG12 2M	E3ZM-V61 2M
E3M-VG16	E3ZM-V81 2M
E3M-VG17 2M	E3ZM-V81 2M
E3M-VG21	E3ZM-V61 2M
E3M-VG22 2M	E3ZM-V61 2M
E3M-VG26	E3ZM-V81 2M
E3M-VG27 2M	E3ZM-V81 2M

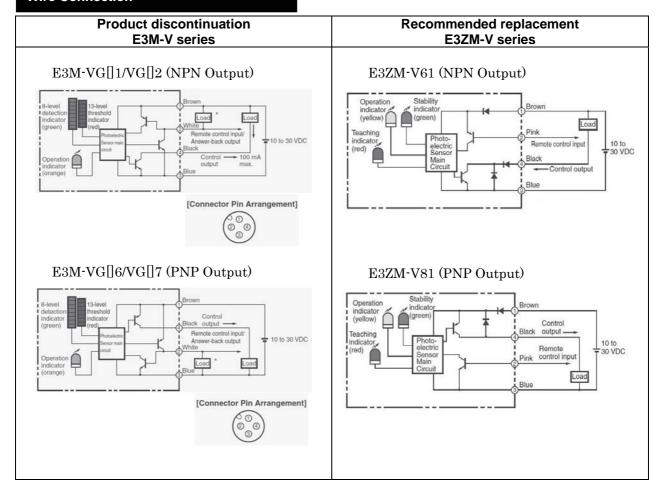
### **Body Color**

Product discontinuation E3M-V series	Recommended replacement E3ZM-V series		
Black	Silver		

#### **Dimensions / Mounting dimensions**



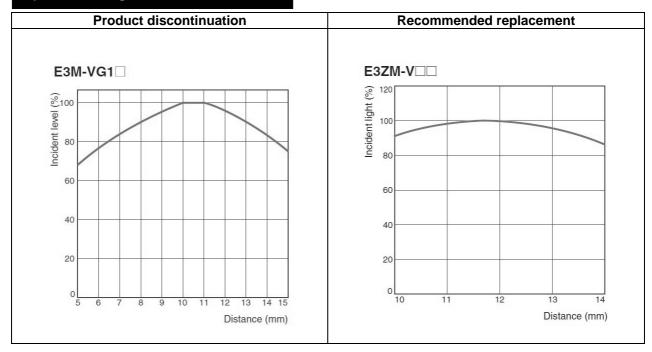
### **Wire Connection**



# Characteristics

Item		Product discontinuation	Recommended replacement		
Mode NPN output PNP output		E3M-VG11/12, -VG21/22	E3ZM-V61		
		E3M-VG16/17, -VG26/27	E3ZM-V81		
Sensing distance		10 ± 3 mm	12 ± 2 mm		
Spot diameter		E3M-VG1[]: 1 x 4 mm (horizontal x vertical) E3M-VG2[]: 4 x 1 mm (horizontal x vertical)	2mm dia. max.		
Light source (wavelength)		Green LED (525 nm)	White LED (450 to 700 nm)		
Power supply voltage		10 to 30 VDC including 10% (p-p) ripple	10 to 30 VDC, including 10% ripple (p-p)		
Current consumption		100 mA max.	600 mW max. (current consumption for a 30-V power supply voltage: 20 mA max.)		
Control output		Load power supply voltage: 30 VDC max., Load current: 100 mA max. NPN open collector output (Residual voltage: 1.2 V max.) PNP open collector output (Residual voltage: 2 V max.)	Load power supply voltage: 30 VDC max., Load current: 100 mA max. (Residual voltage: 2 V max.) Open-collector output (NPN/PNP output depending on model)		
Remote control input		NPN output ON: Short-circuit to 0 V, or 1.5 V max. (source current: 1 mA max.)  NPN output OFF: Open or Vcc -1.5 V to Vcc (leakage current: 0.1 mA max.)  PNP output ON: Vcc -1.5 V to Vcc (sink current: 1 mA max.)  PNP output OFF: Open or 1.5 V max. (leakage current: 0.1 mA max.)	NPN output ON: Short-circuit to 0 V, or 1.5 V max. (source current: 1 mA max.) NPN output OFF: Open or Vcc -1.5 V to Vcc (leakage current: 0.1 mA max.) PNP output ON: Vcc -1.5 V to Vcc (sink current: 1 mA max.) PNP output OFF: Open or 1.5 V max. (leakage current: 0.1 mA max.)		
Answer – back output.		Load power supply voltage: 30 VDC max., Load current: 100 mA max. NPN open collector output (Residual voltage: 1.2 V max.) PNP open collector output (Residual voltage: 2 V max.)	-		
Bank se	election	2-bank selection (Performed by remote control only. Refer to the remote control function for details.)	-		
Indicato	,		Operating indicator (yellow), Stability indicator (green), and Teaching indicator (red)		
L		Power supply reverse polarity protection, Load short-circuit protection	Reversed power supply polarity, Load short-circuit protection, and Reversed output polarity protection		
Response time		ON: 50 μs max., OFF: 70 μs max.	Operate or reset: 50 µs max.		
Ambient temperature range		Operating: -20 to 55°C, Storage: -30 to 70°C (with no icing)	Operating: -40 to 60°C, Storage: -40 to 70°C (with no icing or condensation)		
Ambient		Operating: 35% to 85%, Storage: 35% to 95%	Operating: 35% to 85%, Storage: 35%		
humidity range		(with no condensation)	to 95% (with no condensation)		
Degree of		IEC 60529 IP67	ÎEC 60529: IP67, DIN 40050-9: IP69K		
protecti	on	(with Protective Cover attached)			

# **Operation ratings**



# Operation methods

Product discontinuation	Recommended replacement		
Operation with select switch and teaching button.	Operation with teaching button.		