

# **Product Discontinuation Notices**



**Photoelectric Sensors** 

August 1, 2011 No. 2011233E

# **Discontinuation Notice of Photoelectric Sensor** E3G-L series

**Product Discontinuation** 

**Recommended Replacement** 

**E3Z-LS** series

E3G-L series

# Discontinuation date : The end of March, 2012

#### Caution on recommended replacement

- Dimensions are different.
- Please refer to "Dimensions" and "Mounting dimensions".
- Light source (wavelength) and Sensing range are different. Please refer to "Characteristics".
- Methods of the distance setting are different. E3G-L: Teaching (in NORMAL or ZONE mode)
- E3Z-LS: 5-turn endless adjuster

### Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
E3Z-LS	*		*	*	*	*	

\*\* : 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		
E3G-L11 2M	E3Z-LS63 2M		
E3G-L12	E3Z-LS83 2M		
E3G-L15	E3Z-LS68		
E3G-L16	E3Z-LS88		
E3G-L31 2M	E3Z-LS61 2M		
E3G-L32 2M	E3Z-LS81 2M		
E3G-L35	E3Z-LS66		
E3G-L36	E3Z-LS86		

# Body color

Product discontinuation	Recommended replacement		
E3G-L series	E3Z-LS series		
Black	Black		



#### **Wire Connection**



# Characteristics

item		Product dise	continuation	Recommended replacement		
Model NPN		E3G-L11/L15	E3G-L31/L35	E3Z-LS63/LS68	E3Z-LS61/LS66	
	output					
	PNP	E3G-L12/L16	E3G-L32/L36	E3Z-LS83/LS88	E3Z-LS81/LS86	
	Output					
Sensing r	ange	5 to 50 mm	50 to 200 mm	[BGS]	[BGS]	
		(50×50mm white	(50×50mm white	2 mm to set	20mm to set	
		paper, setting	paper)	distance	distance	
		distance:50 mm)	5 to 150 mm (50×50mm black	(80 mm max.)	(100× 100 mm white or black	
			paper)		paper)	
			paper	[FGS]	[FGS]	
				[100]	Set distance to	
					200 mm min	
					(100×100mm white	
					paper)	
					Set distance to	
					160 mm min	
					(100×100mm black	
					paper)	
Setting ra	inge	30 to 50 mm	50 to 200 mm	20 to 80 mm	40 to 200 mm	
		(50×50mm white	(50×50mm white	(100×100mm	(100×100mm white	
		paper, black paper)	paper) 5 to 150 mm	white paper)	paper) 40 to 160 mm	
			(50×50mm black		(100×100mm black	
			paper)		paper)	
Differential travel		4% max. of setting	10% max. of	2% max. of setting	10% max. of setting	
		distance	setting distance	distance	distance	
Reflectivi		4% max. of setting	10% max. of	5% max. of setting	10% max. of setting	
character		distance	setting distance	distance	distance	
(black/wh Light sou		Red LED (670 nm)	Infrared LED (860	Red LED (650 nm)	Red LED (680 nm)	
(waveleng			nm)			
Power su		10 to 30 VDC including 10% (p-p) ripple		12 to 24 VDC 10%, ripple (p-p): 10% max.		
voltage	66.7			/ 11 \\ 1/		
Current		55 mA max.	65 mA max.	30 mA max.		
consump						
Control o	utput		oltage: 30 VDC max.	Load power supply voltage: 26.4 VDC max.		
		Load current: 100 r		Load current: 100 mA max.		
		(Residual voltage: NPN output: 1.2 V max., PNP output: 2.0 V max.)		(Residual voltage 1	v max.)	
	Open co			Open collector output		
		(NPN/PNP, depend		(NPN or PNP depending on model)		
		Light ON/Dark ON s		Light-ON/Dark-ON switch selectable		
Indications		Operation indicator	(orange),	Operation indicator (orange),		
		Distance indicator (		Stability indicator (green)		
			red, NORMAL mode:			
Drotastia		13 levels, ZONE mo				
Protection	n circuit		e polarity protection,	Reversed power supply polarity protection,		
		Load short-circuit pr		Output short-circuit protection,		
		Mutual interference	prevention	Mutual interference prevention		

# Characteristics

item		Product dis	continuation	Recommended replacement		
Model NPN		E3G-L11/L15	E3G-L31/L35	E3Z-LS63/LS68	E3Z-LS61/LS66	
output						
	PNP	E3G-L12/L16	E3G-L32/L36	E3Z-LS83/LS88	E3Z-LS81/LS86	
	Output					
Response time		Operate or reset:	Operate or reset:	Operate or reset:		
-		1.5 ms max.	2.5 ms max.	1 ms max.		
Distance setting Teaching		Teaching (in NORM	IAL or ZONE mode)	5-turn endless adjuster		
Ambient		Operating: -25 to °C to 55°C, Storage:		Operating: -25 to 55°C, Storage: -40 to		
temperature		-30 to 70°C (with no	icing or	70°C (with no icing or condensation)		
-		condensation)				
Ambient humidity		Operating: 35% to 8	35%, Storage: 35%	Operating: 35% to 85%, Storage: 35% to		
-		to 95% (with no con	densation)	95% (with no condensation)		
Degree of protection		IEC IP67 (with prote	ective cover)	IP67 (IEC 60529)		

# **Operation ratings**



#### **Operation methods**

Product discontinuation	Recommended replacement		
E3G-L series	E3Z-LS series		
Operation with select switch and teaching button.	Operation with distance adjustor (5-turn endless adjuster) and operation select		