Authorised Distributors:-

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OMRON



Sensors Red light Model Sensing method Appearance Sensing distance (white paper) NPN output PNP output Pre-wired (2 m) F37-I S63 F37-I S83 (See note.) Distancesettable E3Z-LS68 E3Z-LS88 4-pin M8 Connector

Dimensions

Note: Models with a 0.5-m cable are also available as a standard feature. When ordering, specify the cable length by adding the (e.g., E3Z-LS63 0.5M).

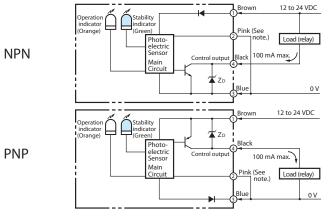
code "0.5M" to the model number

(Unit: mm)

Ratings and Specifications

		I	
Sensing method		Distance-settable	
Model Item	NPN output	E3Z-LS63	E3Z-LS68
	PNP output	E3Z-LS83	E3Z-LS88
Sensing distance	BGS	2 mm to set distance (80 mm max.)	
Setting range		White paper (100 x 100 mm): 20 to 80 mm	
Differential travel		2% of set distance max.	
Reflectivity characteristic (black/white error)		5% of set distance max.	
Light source (wavelength)		Infrared LED (650 nm)	
Spot diameter		Approx. 2 mm (min. value at 50±10 mm)	
Power supply voltage		2 to 24 VDC ±10%, ripple (p-p): 10% max.	
Current consumption		30 mA max.	
Control output		Load power supply voltage: 26.4 VDC max., Load current: 100 mA max., Residual voltage: 1 V max. Open collector output (NPN/PNP depending on model), Light-ON/Dark-ON selectable	
Protection circuits		Reversed power supply polarity protection, Output short -circuit protection, Mutual interference prevention	
Response time (perate or reset: 1 ms max.	
Distance setting		5-turn endless adjuster	
Degree of protection		IP67 (IEC standards)	
Indicator		Operation indicator (orange), Stability indicator (green)	
Material	Case	PBT (polybutylene terephthalate)	
	Lens	Denatured polyarylate resin	
Accessories		Instruction manual (Mounting brackets are not provided.)	

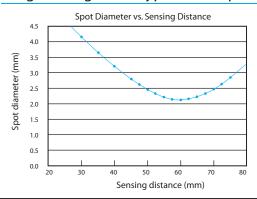
I/O Circuit Diagrams



Note: For BGS, either leave the pink wire (2) open or connect it to 0 $\rm V$.

Pre-wired Models 12.7 E3Z-LS63 E3Z-LS83 **←** 17 nductor cross section: 0.2 ndard length: 2 or 0.5 m 4-pin M8 Connector Models **12.7** E3Z-LS68 .8 E3Z-LS88 -17-

Engineering Data (Typical Example)



This document provides information mainly for selecting suitable models.

Please read the Sensor General Catalog carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

Note: Do not use this document to operate the Unit.

OMRON Corporation

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Note: Specifications subject to change without notice

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