

Compact Photoelectric Sensor
with Built-in Amplifier

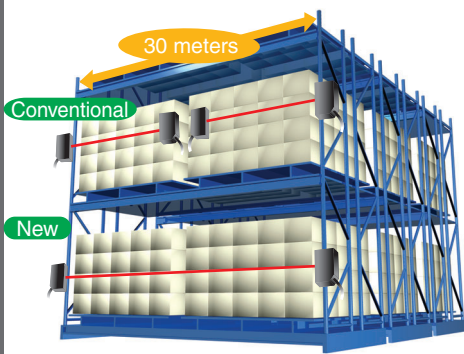
E3Z FAMILY

OMRON

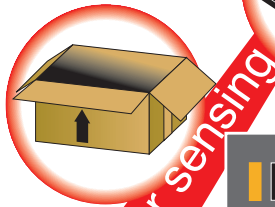
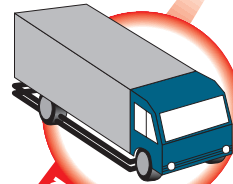
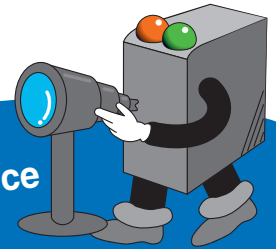
Now You Get a New and Better Fit for
Your Needs in Addition to the Assurance
that Always Came with the E3Z.

Helping to find solutions for a variety of problems.

Use it to detect protruding cargo (problem detection)



Long Sensing Distance
A Single Sensor
Handles Even
Large Equipment



Use it to detect protruding vehicles in parking towers



Use it to detect obstacles in mobile warehouses



Long, long 30-meter sensing
distance



E3Z-T62/82

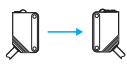

Compact Photoelectric Sensor with
Built-in Amplifier



Ordering Information

Sensors

 Infrared light

Sensing method	Appearance	Connection method	Sensing distance	Added function	Model	
					NPN output	PNP output
Through-beam		Pre-wired (2 m) (See note.)	 30 m	—	E3Z-T62	E3Z-T82
		4-pin M8 Connector			E3Z-T67	E3Z-T87
		Pre-wired (2 m) (See note.)			E3Z-T62-G0	E3Z-T82-G0
		4-pin M8 Connector			E3Z-T67-G0	E3Z-T87-G0

Note: Models with a 0.5-m cable are also available as a standard feature. When ordering, specify the cable length by adding the code "0.5M" to the model number (e.g., E3Z-T62 0.5M).

Ratings and Specifications

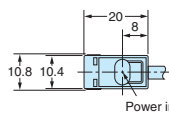
Sensing method		Through-beam	
Model Item	NPN output	E3Z-T62-□	E3Z-T67-□
	PNP output	E3Z-T82-□	E3Z-T87-□
Sensing distance	30 m		
Standard sensing object	Opaque: 12-mm dia. min.		
Light source (wavelength)	Infrared LED (870 nm)		
Power supply voltage	12 to 24 VDC ±10%, ripple (p-p): 10% max.		
Current consumption	Emitter: 15 mA, Receiver: 20 mA		
Control output	Load power supply voltage: 26.4 VDC max., Load current: 100 mA max., Residual voltage: Load current of less than 10 mA: 1 V max. Load current of 10 to 100 mA: 2 V max., Open collector output (NPN/PNP depending on model), Light-ON/Dark-ON selectable		
Emission stop function (E3Z-T□-G0 only)	Input	NPN output emission OFF: Short-circuited to 0 V or 1.5 V max. (source current of 1 mA max.), emission ON: Open (leakage current of 0.1 mA max.) PNP output emission OFF: Short-circuited to +DC (positive side of power supply) or +DC-1.5 V max. (sink current of 3 mA max.), emission ON: Open (leakage current of 0.1 mA max.)	
	Response time	3 ms max.	
Protection circuits	Reversed power supply polarity protection, Output short-circuit protection, Reversed output polarity protection		
Response time	Operate or reset: 2 ms max.		
Sensitivity adjustment	One-turn adjuster		
Degree of protection	IP67 (IEC standards)		
Indicator	Operation indicator (orange), Stability indicator (green), Emitter has power indicator (orange) only.		
Weight	Case	PBT (polybutylene terephthalate)	
	Lens	Denatured polyarylate resin	
Accessories	Instruction manual (Mounting brackets are not provided.)		

Dimensions

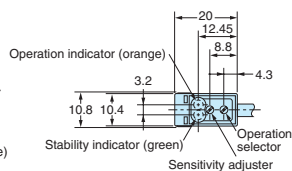
Pre-wired Models

E3Z-T62-□
E3Z-T82-□

Emitter



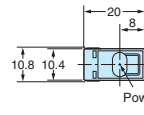
Receiver



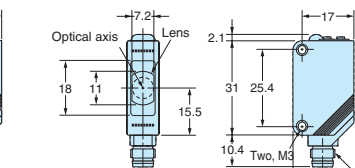
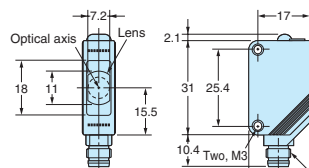
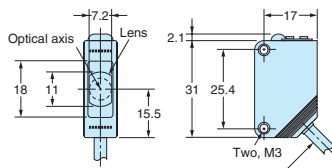
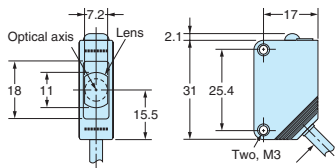
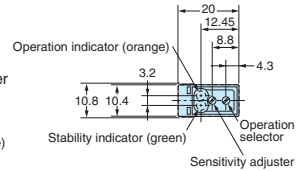
4-pin M8 Connector Models

E3Z-T67-□
E3Z-T87-□

Emitter



Receiver



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.

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Note: Specifications subject to change without notice.

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