

Ultracompact, Ultrathin Photoelectric Sensor with Built-in Amplifier

# E3T

## The Improved E3T Series with Easier, Smoother Mounting and Installation





- The series includes Through-beam, Long-distance (2 m) Sensors (E3T-ST3□).
- Easy installation with M3-mounting Sensors (E3T-ST□□M, E3T-FD□□M, and E3T-SL□□M).
- Small Cylindrical Sensors for one-point mounting are also available (E3T-C□□□(S)).
- Infrared Sensors added to the Series (E3T-□□□□(M)F).



 Be sure to read *Safety Precautions* on page 15.

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

## Lineup Overview

Appearance		Sensing method	Through-beam	Retro-reflective	Diffuse-reflective	Limited-reflective	BGS-reflective
Rectangular type	Side-view 	M2-mounting	●	●	---	●	---
		M3-mounting	●	---	---	●	---
	Flat 	M2-mounting	●	---	●	---	●
		M3-mounting	---	---	●	---	---
Cylindrical type	Top-view 	---	●	---	●	---	---
	Side-view 	---	●	---	---	---	---







# E3T

## Ordering Information




**Sensors** [Refer to Dimensions on page 16.]

■ Red light □ Infrared light

**M2-mounting Sensors** A set of mounting screws is included with the Sensor.

Sensing method	Appearance	Sensing distance	Operation mode	Model	
				NPN output	PNP output
Through-beam ( Emitter + Receiver ) <sup>*1</sup>		2 m (Sensitivity Adjustment Unit can be used.)	Light-ON	E3T-ST31 2M <sup>*4</sup>	E3T-ST33 2M <sup>*4</sup>
			Dark-ON	E3T-ST32 2M <sup>*4</sup>	E3T-ST34 2M <sup>*4</sup>
		1 m (Sensitivity Adjustment Unit can be used.)	Light-ON	E3T-ST11 2M <sup>*4</sup>	E3T-ST13 2M <sup>*4</sup>
			Dark-ON	E3T-ST12 2M <sup>*4</sup>	E3T-ST14 2M <sup>*4</sup>
		300 mm	Light-ON	E3T-ST21 2M	E3T-ST23 2M
			Dark-ON	E3T-ST22 2M	E3T-ST24 2M
		2 m	Light-ON	E3T-ST31F 2M	E3T-ST33F 2M
			Dark-ON	E3T-ST32F 2M	E3T-ST34F 2M
		1 m	Light-ON	E3T-ST11F 2M	E3T-ST13F 2M
			Dark-ON	E3T-ST12F 2M	E3T-ST14F 2M
	300 mm	Light-ON	E3T-ST21F 2M	E3T-ST23F 2M	
		Dark-ON	E3T-ST22F 2M	E3T-ST24F 2M	
		500 mm	Light-ON	E3T-FT11 2M <sup>*4</sup>	E3T-FT13 2M <sup>*4</sup>
			Dark-ON	E3T-FT12 2M <sup>*4</sup>	E3T-FT14 2M <sup>*4</sup>
		300 mm	Light-ON	E3T-FT21 2M	E3T-FT23 2M
			Dark-ON	E3T-FT22 2M	E3T-FT24 2M
		500 mm	Light-ON	E3T-FT11F 2M	E3T-FT13F 2M
			Dark-ON	E3T-FT12F 2M	E3T-FT14F 2M
		300 mm	Light-ON	E3T-FT21F 2M	E3T-FT23F 2M
			Dark-ON	E3T-FT22F 2M	E3T-FT24F 2M
Retro-reflective		Using the E39-R4 Reflector, provided 200 mm [30 mm] <sup>*2</sup>	Light-ON	E3T-SR41 2M <sup>*3 *4</sup>	E3T-SR43 2M <sup>*3 *4</sup>
			Dark-ON	E3T-SR42 2M <sup>*3 *4</sup>	E3T-SR44 2M <sup>*3 *4</sup>
Diffuse-reflective		5 to 30 mm	Light-ON	E3T-FD11 2M <sup>*4</sup>	E3T-FD13 2M <sup>*4</sup>
			Dark-ON	E3T-FD12 2M <sup>*4</sup>	E3T-FD14 2M <sup>*4</sup>
Limited-reflective		5 to 15 mm	Light-ON	E3T-SL11 2M <sup>*4</sup>	E3T-SL13 2M <sup>*4</sup>
			Dark-ON	E3T-SL12 2M <sup>*4</sup>	E3T-SL14 2M <sup>*4</sup>
		5 to 30 mm	Light-ON	E3T-SL21 2M <sup>*4</sup>	E3T-SL23 2M <sup>*4</sup>
			Dark-ON	E3T-SL22 2M <sup>*4</sup>	E3T-SL24 2M <sup>*4</sup>
BGS-reflective		1 to 15 mm	Light-ON	E3T-FL11 2M <sup>*4</sup>	E3T-FL13 2M <sup>*4</sup>
			Dark-ON	E3T-FL12 2M <sup>*4</sup>	E3T-FL14 2M <sup>*4</sup>
		1 to 30 mm	Light-ON	E3T-FL21 2M <sup>*4</sup>	E3T-FL23 2M <sup>*4</sup>
			Dark-ON	E3T-FL22 2M <sup>*4</sup>	E3T-FL24 2M <sup>*4</sup>

**M3-mounting Sensors** A set of mounting screws is not included with the Sensor. Order a Screw Set separately if required.

Sensing method	Appearance	Sensing distance	Operation mode	Model	
				NPN output	PNP output
Through-beam ( Emitter + Receiver ) <sup>*1</sup>		1 m	Light-ON	E3T-ST11M 2M	E3T-ST13M 2M
			Dark-ON	E3T-ST12M 2M	E3T-ST14M 2M
		300 mm	Light-ON	E3T-ST21M 2M	E3T-ST23M 2M
			Dark-ON	E3T-ST22M 2M	E3T-ST24M 2M
		1 m	Light-ON	E3T-ST11MF 2M	E3T-ST13MF 2M
			Dark-ON	E3T-ST12MF 2M	E3T-ST14MF 2M
		300 mm	Light-ON	E3T-ST21MF 2M	E3T-ST23MF 2M
			Dark-ON	E3T-ST22MF 2M	E3T-ST24MF 2M
Diffuse-reflective		5 to 30 mm	Light-ON	E3T-FD11M 2M	E3T-FD13M 2M
			Dark-ON	E3T-FD12M 2M	E3T-FD14M 2M
Limited-reflective		5 to 15 mm	Light-ON	E3T-SL11M 2M	E3T-SL13M 2M
			Dark-ON	E3T-SL12M 2M	E3T-SL14M 2M
		5 to 30 mm	Light-ON	E3T-SL21M 2M	E3T-SL23M 2M
			Dark-ON	E3T-SL22M 2M	E3T-SL24M 2M

\*1. The model number of the Emitter is expressed by adding an "L" to the set model number in the table. Example: E3T-ST11-L 2M  
The model number of the Receiver is expressed by adding a "D" to the set model number in the table. Example: E3T-ST11-D 2M

\*2. Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

\*3. Models are available either with or without the E39-R37-CA Reflector included.

Models with E39-R37-CA Reflector: E3T-SR4□-S

Models without Reflector: E3T-SR4□-C

\*4. Models with robot (bending-resistant) cable are also available with "R" in the model number. (Example: E3T-ST11R 2M)