

Ultracompact, Ultrathin Photoelectric Sensor with Built-in Amplifier

E3T

The Improved E3T Series with Easier, Smoother Mounting and Installation

CE

- 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-□T□□(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 	---	●	---	---	---	---

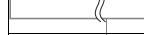
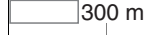
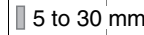
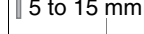
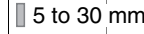
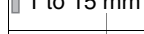
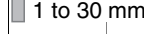
E3T

Ordering Information

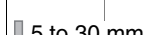
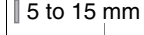
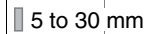
Sensors [Refer to Dimensions on page 16.]

■ 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) ^{*1}		 2 m	Light-ON	E3T-ST31 2M ^{*4}	E3T-ST33 2M ^{*4}
		(Sensitivity Adjustment Unit can be used.)	Dark-ON	E3T-ST32 2M ^{*4}	E3T-ST34 2M ^{*4}
		 1 m	Light-ON	E3T-ST11 2M ^{*4}	E3T-ST13 2M ^{*4}
		(Sensitivity Adjustment Unit can be used.)	Dark-ON	E3T-ST12 2M ^{*4}	E3T-ST14 2M ^{*4}
		 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-ST11 2M ^{*4}	E3T-ST13 2M ^{*4}
			Dark-ON	E3T-ST12 2M ^{*4}	E3T-ST14 2M ^{*4}
		 300 mm	Light-ON	E3T-ST21 2M	E3T-ST23 2M
			Dark-ON	E3T-ST22 2M	E3T-ST24 2M
Retro-reflective		Using the E39-R4 Reflector, provided 200 mm [30 mm] ^{*2}	Light-ON	E3T-SR41 2M ^{*3 *4}	E3T-SR43 2M ^{*3 *4}
		Using the E39-R37-CA 100 mm [10 mm] ^{*2}	Dark-ON	E3T-SR42 2M ^{*3 *4}	E3T-SR44 2M ^{*3 *4}
Diffuse-reflective		 5 to 30 mm	Light-ON	E3T-FD11 2M ^{*4}	E3T-FD13 2M ^{*4}
Limited-reflective		 5 to 15 mm	Light-ON	E3T-SL11 2M ^{*4}	E3T-SL13 2M ^{*4}
			Dark-ON	E3T-SL12 2M ^{*4}	E3T-SL14 2M ^{*4}
		 5 to 30 mm	Light-ON	E3T-SL21 2M ^{*4}	E3T-SL23 2M ^{*4}
			Dark-ON	E3T-SL22 2M ^{*4}	E3T-SL24 2M ^{*4}
BGS-reflective		 1 to 15 mm	Light-ON	E3T-FL11 2M ^{*4}	E3T-FL13 2M ^{*4}
			Dark-ON	E3T-FL12 2M ^{*4}	E3T-FL14 2M ^{*4}
		 1 to 30 mm	Light-ON	E3T-FL21 2M ^{*4}	E3T-FL23 2M ^{*4}
			Dark-ON	E3T-FL22 2M ^{*4}	E3T-FL24 2M ^{*4}

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) ^{*1}		 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
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)