

Ultracompact, Ultrathin Photoelectric Sensor with Built-in Amplifier

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

- Newly added 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 also added to the Series. $(E3T-C\square\square\square(S)).$



Be sure to read Safety Precautions on page 13.

Lineup Overview

Appearance		Sensing method	Through-beam	Retro- reflective	Diffuse- reflective	Convergent- reflective	BGS- reflective
	Side-view	M2-mounting	•	•		•	
Rectangular	Y	NEW M3-mounting	•			•	
type	Flat	M2-mounting	•		•		•
		NEW M3-mounting			•		
NEW Cylindrical	Top-view		•		•		
type	Side-view		•				

Ordering Information

Sensors [Refer to Dimensions on page 14.]

A set of mounting screws is included with the Sensor.

Red light Infrared light

Sensing method	Appearance	Sensing distance	Operation mode		Model
bensing method	Appearance	Sensing distance	Operation mode	NPN output	PNP output
		2 m	Light-ON	E3T-ST31 2M <u>NEW</u>	E3T-ST33 2M <u>NEW</u>
		(Sensitivity Adjustment Unit can be used.)	Dark-ON	E3T-ST32 2M <u>NEW</u>	E3T-ST34 2M <u>NEW</u>
Through-beam		1 m	Light-ON	E3T-ST11 2M	E3T-ST13 2M
Emitter *2	- 11	(Sensitivity Adjustment Unit can be used.)	Dark-ON	E3T-ST12 2M	E3T-ST14 2M
Receiver		300 mm	Light-ON	E3T-ST21 2M	E3T-ST23 2M
		300 111111	Dark-ON	E3T-ST22 2M	E3T-ST24 2M
		500 mm	Light-ON	E3T-FT11 2M	E3T-FT13 2M
		300 111111	Dark-ON	E3T-FT12 2M	E3T-FT14 2M
		300 mm	Light-ON	E3T-FT21 2M	E3T-FT23 2M
	1 1	300 11111	Dark-ON	E3T-FT22 2M	E3T-FT24 2M
Retro-		Using the E39-R4 Reflector provided 200 mm [30 mm] *1	Light-ON	E3T-SR41 2M*3	E3T-SR43 2M*3
reflective		Using the E39-R37-CA 100 mm [10 mm] *1	Dark-ON	E3T-SR42 2M*3	E3T-SR44 2M*3
Diffuse-	/2	5 to 30 mm	Light-ON	E3T-FD11 2M	E3T-FD13 2M
reflective		5 10 30 11111	Dark-ON	E3T-FD12 2M	E3T-FD14 2M
	(7)	5 to 15 mm	Light-ON	E3T-SL11 2M	E3T-SL13 2M
Convergent-		3 10 13 111111	Dark-ON	E3T-SL12 2M	E3T-SL14 2M
reflective	- T	5 to 30 mm	Light-ON	E3T-SL21 2M	E3T-SL23 2M
		■ 5 to 50 mm	Dark-ON	E3T-SL22 2M	E3T-SL24 2M
		1 to 15 mm	Light-ON	E3T-FL11 2M	E3T-FL13 2M
BGS-		1 10 13 111111	Dark-ON	E3T-FL12 2M	E3T-FL14 2M
reflective	7	1 to 30 mm	Light-ON	E3T-FL21 2M	E3T-FL23 2M
	ı	1 10 30 mm	Dark-ON	E3T-FL22 2M	E3T-FL24 2M

M3-mounting Sensors NEW 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		
Sensing method	Appearance	Sensing distance	Operation mode	NPN output	PNP output	
Through-beam) 1 m	Light-ON	E3T-ST11M 2M	E3T-ST13M 2M	
/ Emitter *2	7		Dark-ON	E3T-ST12M 2M	E3T-ST14M 2M	
+		300 mm	Light-ON	E3T-ST21M 2M	E3T-ST23M 2M	
Receiver		300 111111	Dark-ON	E3T-ST22M 2M	E3T-ST24M 2M	
Diffuse-	/	5 to 30 mm	Light-ON	E3T-FD11M 2M	E3T-FD13M 2M	
reflective		3 10 30 11111	Dark-ON	E3T-FD12M 2M	E3T-FD14M 2M	
		5 to 15 mm	Light-ON	E3T-SL11M 2M	E3T-SL13M 2M	
Convergent-	/.	3 10 13 111111	Dark-ON	E3T-SL12M 2M	E3T-SL14M 2M	
reflective		5 to 30 mm	Light-ON	E3T-SL21M 2M	E3T-SL23M 2M	
	ı		Dark-ON	E3T-SL22M 2M	E3T-SL24M 2M	

Small Cylindrical Sensors <u>NEW</u> A set of mounting nuts is included with the Sensor.

Sensing method	Appearance	Sensing distance		Operation mode	Model		
Sensing method	Appearance			Operation mode	NPN output	PNP output	
Through-beam	- War		1 m	Light-ON			
/ Emitter \	A STATE OF THE STA			Dark-ON	E3T-CT12 2M	E3T-CT14 2M	
+ Receiver	1		500 mm	Light-ON			
(/	Į į		000 111111	Dark-ON	E3T-CT22S 2M	E3T-CT24S 2M	
Diffuse- reflective		∏ 3 to 50 i	mm	Light-ON	E3T-CD11 2M	E3T-CD13 2M	
(with adjuster)		_ 3 to 30 l	111111	Dark-ON			

^{*1.} Values in parentheses indicate the minimum required distance between the Sensor and Reflector.
*2. 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 Orders for individual Emitters and Receivers are accepted. (Modifications are required for some models.)

^{*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

Variety of Connection Specifications

The models with the connection specifications marked with a black circle in the table are available. These are applicable only to M2-mounting Sensors. The model number indication is a combination of the basic model and the connection specification.

Example: E3T-ST11,-M1TJ 0.3M

Basic model number Connection specification

NPN Output

NFN Outp	ut			1				1
	Model		Model num- ber example	E3T-ST11-M1TJ 0.3M	E3T-ST11 5M	E3T-ST11R 2M	E3T-ST11-ECON 0.3M	E3T-ST11-ECON 2M
Sensing	Sensing	Operation	Connection specification	M12 pre-wired Smartclick Con- nector (cable length: 0.3 m)	Pre-wired (cable length: 5 m)	Pre-wired robot (cable length: 2 m)	e-CON pre-wired connector (cable length: 0.3 m)	e-CON pre-wired connector (cable length: 2 m)
method	distance	mode	Basic model number	-M1TJ 0.3M	5M	5M R 2M		-ECON 2M
	2 m	Light-ON	E3T-ST31	•	•	•	•	•
	2 m	Dark-ON	E3T-ST32	•	•	•	•	•
Through- beam	1 m	Light-ON	E3T-ST11	•	•	•	•	•
(side-view)	1 M	Dark-ON	E3T-ST12	•	•	•	•	•
	300 mm	Light-ON	E3T-ST21	•	•		•	•
	300 mm	Dark-ON	E3T-ST22	•	•		•	•
	500 mm	Light-ON	E3T-FT11	•	•	•	•	•
Through- beam	500 mm	Dark-ON	E3T-FT12	•	•	•	•	•
(flat)	300 mm	Light-ON	E3T-FT21	•			•	•
	300 11111	Dark-ON	E3T-FT22	•			•	•
Retro-	200 mm	Light-ON	E3T-SR41	•	•	•	•	•
reflective	(100 mm)*	Dark-ON	E3T-SR42	•	•	•	•	•
Diffuse-	5 to 30 mm	Light-ON	E3T-FD11	•	•	•	•	•
reflective	5 to 30 mm	Dark-ON	E3T-FD12	•	•	•	•	•
	5 to 15 mm	Light-ON	E3T-SL11	•	•	•	•	•
Convergent-	5 10 15 11111	Dark-ON	E3T-SL12	•	•	•	•	•
reflective	5 to 30 mm	Light-ON	E3T-SL21	•	•	•	•	•
	5 tO 30 mm	Dark-ON	E3T-SL22	•	•	•	•	•
	1 to 15 mm	Light-ON	E3T-FL11	•		•		
BGS-	1 to 15 mm	Dark-ON	E3T-FL12	•		•		
reflective	1 to 30 mm	Light-ON	E3T-FL21	•		•	•	
	1 to 30 mm	Dark-ON	E3T-FL22	•		•		

*The sensing distance depends on the Reflector that is used. The sensing distance is 200 mm if an E39-R4 is used and 100 mm if an E39-R37-CA is used. PNP Output

	Model		Model num- ber example	E3T-ST13-M1TJ 0.3M	E3T-ST13 5M	E3T-ST13R 2M
Sensing method	Sensing distance	Operation mode	Connection specification	M12 pre-wired Smartclick Connector (cable length: 0.3 m)	Pre-wired (cable length: 5 m)	Pre-wired robot (cable length: 2 m)
method	distance	mode	Basic model number	-M1TJ 0.3M	5M	R 2M
	2 m	Light-ON	E3T-ST33	•	•	•
	2 m	Dark-ON	E3T-ST34	•	•	•
Through-	1 m	Light-ON	E3T-ST13	•	•	•
beam (side-view)	1 m	Dark-ON	E3T-ST14	•	•	•
	300 mm	Light-ON	E3T-ST23	•		
	300 mm	Dark-ON	E3T-ST24	•		
	500 mm	Light-ON	E3T-FT13	•	•	•
Through- beam	500 mm	Dark-ON	E3T-FT14	•	•	•
(flat)	300 mm	Light-ON	E3T-FT23	•		
	300 mm	Dark-ON	E3T-FT24	•	•	
Retro-	200 mm	Light-ON	E3T-SR43	•	•	•
reflective	(100 mm)*	Dark-ON	E3T-SR44	•	•	•
Diffuse-	5 to 30 mm	Light-ON	E3T-FD13	•	•	•
reflective	5 to 30 mm	Dark-ON	E3T-FD14	•	•	•
	5 to 15 mm	Light-ON	E3T-SL13	•	•	•
Convergent-	5 to 15 mm	Dark-ON	E3T-SL14	•	•	•
reflective	5 to 30 mm	Light-ON	E3T-SL23	•	•	•
	5 to 50 mm	Dark-ON	E3T-SL24	•	•	•
	1 to 15 mm	Light-ON	E3T-FL13	•		•
BGS-	1 (O 15 IIIM	Dark-ON	E3T-FL14	•		•
reflective	1 to 30 mm	Light-ON	E3T-FL23	•		•
	1 (O 30 IIIM	Dark-ON	E3T-FL24	•		•

*The sensing distance depends on the Reflector that is used. The sensing distance is 200 mm if an E39-R4 is used and 100 mm if an E39-R37-CA is used.

Accessories (Order Separately)

Accessories for M2-mounting Sensors These accessories are not included with the Sensor. Order them separately if required.

Name		Applicable Sensor	Model	Quantity	Dimensions page	Remarks
Mutual Interference Preven	ition Filter for	E3T-ST3□	E39-E14	4 (Two cach for Emitter		Sensing distance 1 m
Through-beam Side-view S		E3T-ST1□	- LJ3-E 14	(Two each for Emitter and Receiver)		Sensing distance 0.5 m
		E3T-ST3□				Sensing distance 200 mm, Minimum detectable object (typical) 0.5-mm dia.
	0.5 dia.	E3T-ST1□				Sensing distance 100 mm, Minimum detectable object (typical) 0.5-mm dia.
Slit for Through-beam		E3T-ST2□	E39-S63			Sensing distance 30 mm, Minimum detectable object (typical) 0.5-mm dia.
Side-view Sensors		E3T-ST3□		(One each for Emitter and Receiver; common with Slit widths of 1 dia. and 0.5 dia.)	19	Sensing distance 600 mm, Minimum detectable object (typical) 1-mm dia.
	1 dia.	E3T-ST1□	_			Sensing distance 300 mm, Minimum detectable object (typical) 1-mm dia.
		E3T-ST2□				Sensing distance 100 mm, Minimum detectable object (typical) 1-mm dia.
Slit for Through-beam Flat Sensors	0.5 dia.	E3T-FT1□				Sensing distance 50 mm, Minimum detectable object (typical) 0.5-mm dia.
		E3T-FT2□	E39-S64			Sensing distance 30 mm, Minimum detectable object (typical) 0.5-mm dia.
	1 dia.	E3T-FT1	203 004			Sensing distance 100 mm, Minimum detectable object (typical) 1-mm dia.
		E3T-FT2				Sensing distance 50 mm, Minimum detectable object (typical) 1-mm dia.
Sensitivity Adjustment Unit	for Through-	E3T-ST3□	E00 E40			Sensing distance (typical) 1,200 to 1,800 mm
beam Side-view Sensors		E3T-ST1□	E39-E10	1		Sensing distance (typical) 300 to 800 mm
Mounting Brackets for Side	-view Sensors		E39-L116		20	
*2	VION CONCORD	E3T-S□□□	E39-L117 E39-L118	1		Nut plate provided
			E39-L119	-	21	
Mounting Brackets for Flat	Sensors *2	E3T-F□□□	E39-L120			
Screw Set for Side-view Se	ensors *3*4	E3T-S□□□	E39-L164	2 for each		Material: Iron (Same type as provided with the Sensor.) Contents: Phillips screws (M2×14), Hexagonal nuts, Spring washers, Flat washers
Screw Set for Flat Sensors *3*4		E3T-F□□□	E39-L165	- 2 IOI 64011		Material: Iron (Same type as provided with the Sensor.) Contents: Phillips screws (M2×8), Hexagonal nuts, Spring washers, Flat washers
SUS Screw Set for Flat Sensors *3		E3T-F□□□	E39-L172	2		Material: SUS304 Contents: Bolt with hexagonal hole (M2×6)
SUS Screw Set for Side-vie	ew Sensors *3	E3T-S□□□	E39-L173	2 for each		Material: SUS304 Contents: Bolt with hexagonal hole (M2×12), Hexagonal nuts, Spring washers, Flat washers

^{*1.}An arrow indicates the polarization direction. Mutual interference can be prevented by using different polarization directions for adjacent Emitters/Receivers.

*2. When using Through-beam Sensors (E3T-ST□□, E3T-FT□□), order one bracket for the Emitter and one for the Receiver.

*3. Order two Sets, one for the Emitter and one for the Receiver, for Through-beam Sensors (E3T-ST□□ or E3T-FT□□).

This is the Screw Set for mounting the Sensor to the Mounting Bracket. Order this Set if you loose the screws. Do not use this Screw Set to mount the Mounting Bracket to the equipment.

^{*4.} This is included with the Sensor.

Accessories for M3-mounting Sensors These accessories are not included with the Sensor. Order them separately if required.

Name	Name		Model	Quantity	Dimensions page	Remarks
	0.5	E3T-ST1□M	-E39-S76A			Sensing distance 100 mm, Minimum detectable object (typical) 0.5-mm dia.
Slits for Through-beam	dia.	E3T-ST2□M	-E39-370A	2 (One each for	19	Sensing distance 30 mm, Minimum detectable object (typical) 0.5-mm dia.
Side-view Sensors	1 dia.	E3T-ST1□M	E39-S76B	Emitter and Receiver)		Sensing distance 300 mm, Minimum detectable object (typical) 1-mm dia.
	i dia.	E3T-ST2□M	-E39-370B			Sensing distance 100 mm, Minimum detectable object (typical) 1-mm dia.
Mounting Bracket for Side-v Sensors *1	iew	E3T-S□□M	E39-L166			Nut plate provided
Mounting Bracket for Flat Se	ensors	-E3T-FD□□M	E39-L167	1	22	
Back-mounting Spacer for F sors	lat Sen-	E31-FD	E39-L168			Use this Spacer when mounting a Flat Sensor (E3T-FD□□M) from the back.
SUS Screw Set for Flat Sensors *2		E3T-FD□□M	E39-L170	2		Material: SUS304 Contents: Bolt with hexagonal hole (M3×6)
SUS Screw Set for Side-view Sensors *1*2		E3T-S□□M	3T-S□□□M E39-L171			Material: SUS304 Contents: Bolt with hexagonal hole (M3×15), Hexagonal nuts, Spring washers, Flat washers

 $[\]pmb{*1.} \textbf{When using Through-beam Sensors (E3T-ST\square\squareM), order one bracket for the Emitter and one for the Receiver.}$

Accessories for Small Cylindrical Sensors

Name	Applicable Sensor	Model	Quantity	Dimensions Page	Remarks	
occitat cortor illiough zoum	E3T-CT□□ E3T-CT□□S	E39-M5	4 (Hexagonal nuts), 2 (Toothed washers)		Material: SUS303	
SUS Nut Set for Diffuse-reflective Sensors	E3T-CD	E39-M6	2 (Hexagonal nuts), 1(Toothed washers)		(Same type as provided with the Sensor.)	
Adjustment Driver for Diffuse-reflective Sensors		E39-G17	1		This Driver is used to turn the sensitivity adjuster. Provided with E3T-CD \Box	

^{*1.} This Nut Set is for the Emitter/Receiver. This is the Nut Set for mounting the Sensor. Order this Set if you loose the screws.

Accessories for All Sensors

Name	Applicable Sensor	Model	Quantity	Dimensions Page	Remarks	
Small Reflectors	E3T-SR4□	E39-R4		18	Sensing distance 200 mm [30 mm] *1 Minimum detectable object 2-mm dia. Provided with the E3T-SR4□	
(for Retro-reflective Sensors)	E3T-SR4□-S	E39-R37-CA *2		10	Sensing distance 100 mm [10 mm]*1 Minimum detectable object 2-mm dia. Provided with the E3T-SR4□-S	
		E39-RS1-CA *2	ı		Sensing distance 100 mm [10 mm]*1	
Tape Reflectors (for Retro-reflective Sensors)	E3T-SR4□-C	E39-RS2-CA *2		19	Minimum detectable object 2-mm dia. Use Tape Reflectors in combination with the E3T-SR4□-C, which	
		E39-RS3-CA *2			does not come with a Reflector.	

^{*1.} Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

Sensor I/O Connectors

(Models with Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.)

Size	Cable	Appearance	Cable t	уре	Model	
M12		Straight	2 m		XS5F-D421-D80-A	
(For -M1TJ models)			5 m		XS5F-D421-G80-A	
	Standard cable	Connector on one end	2 m		E39-ECON2M	
			5 m	4-wire	E39-ECON5M	
e-CON		Connector on both ends	0.5 to 1 m		E39-ECONW□M	
		122	1.1 to 1.5 m		Replace \square with the cable length in 0.1-m increments.	
			1.6 to 2 m			

 ${\bf Note: \ When \ using \ Through-beam \ Sensors, \ order \ one \ connector \ for \ the \ Emitter \ and \ one \ for \ the \ Receiver.}$

^{*2.} This is the Screw Set for mounting the Sensor to the Mounting Bracket. Order this Set if you loose the screws. Do not use this Screw Set to mount the Mounting Bracket to the equipment.

^{*2.} The E3T-SR4□ cannot be used with the E39-R37 or E39-RS1/2/3 (without CA) Tape Reflectors. The E39-□-CA Reflector is for use only with the E3T-SR4□. It cannot be used with other Sensors.

Ratings and Specifications

	Sensing method				Through-bea	am			Retro-reflective (without M.S.R. function	
	Appearance	Rectan	gular type (Sid	de-view)	Rectangula	ar type (Flat)	Cylindrical type (Top-view)	Cylindrical type (Side-view)	Rectangular type (Side-view)	
ltem					100 m			++		
Light-ON		E3T-ST31	E3T-ST11 E3T-ST11M	E3T-ST21 E3T-ST21M	E3T-FT11	E3T-FT21			E3T-SR41	
NPN output	Dark-ON	E3T-ST32	E3T-ST12 E3T-ST12M	E3T-ST22 E3T-ST22M	E3T-FT12	E3T-FT22	E3T-CT12	E3T-CT22S	E3T-SR42	
PNP	Light-ON	E3T-ST33	E3T-ST13 E3T-ST13M	E3T-ST23 E3T-ST23M	E3T-FT13	E3T-FT23			E3T-SR43	
output	Dark-ON	E3T-ST34	E3T-ST14 E3T-ST14M	E3T-ST24 E3T-ST24M	E3T-FT14	E3T-FT24	E3T-CT14	E3T-CT24S	E3T-SR44	
Sensing o	distance	2 m	1 m	300 mm	500 mm	300 mm	1 m	500 mm	200 mm [30 mm] *1 (Using the E39-R4 100 mm [10 mm] *1 (Using the E39-R3 CA)	
Standard	sensing object	Opaque, 3- mm dia. min.	Opaque, 2-m	m dia. min.	Opaque, 1.3-ı	mm dia. min.	Opaque, 4- mm dia. min.	Opaque, 5- mm dia. min.	Opaque, 27-mm dia. min.	
(typical)	detectable object	Opaque, 3- mm dia.	Opaque, 2-m	m dia.	Opaque, 1.3-	mm dia.			2-mm dia. (Sensing distance 100 mm)	
Hysteresi Black/whi	is (white paper)									
Direction	al angle	Emitter: 2 to :			Emitter: 3 to 2 Receiver: 3° r		Receiver: 2° Receiver: 10°		2 to 20°	
Light sou	ht source (wavelength) Red LED (650 nm)						Red LED (630 nm) Red LED (625 nm)		Red LED (650 nm)	
	pply voltage onsumption		Emitter 10 m/	,	c. er 20 mA max.)	1	30 mA max. (E		20 mA max.	
- Current C	onsumption	30 m/ max.	(Emilier 10 m)-	max., receiv	ci zo ina max.,		max., Receive	r 15 mA max.)	Load power supply voltage: 26.4 VDC	
Control o	utput	Load power supply voltage: 26.4 VDC max. Load current: 50 mA max. (residual voltage: 2 V max. 10 to 50 mA, 1 V max. for load current of less than 10 Open-collector output			e: 2 V max. for		Load power su 30 VDC max. Load current: (residual volta) Open-collector	30 mA max. ge: 1 V max.)	max. Load current: 50 mA max. (residual vol age: 2 V max. for load current of 10 to 5 mA, 1 V max. for load current of less than 10 mA) Open-collector output	
Protection	n circuits		y and control o -circuit protecti		polarity protecti	on,	Power supply r protection, Output short-c	everse polarity	Power supply and control output revers polarity protection, Output short-circuit protection, Mutual interference prevention	
Response	e time	Operate or re	eset: 1 ms max				Operate or res	et: 0.5 ms max.	Operate or reset: 1 ms max.	
Ambient i	illumination	Incandescen	t lamp: 5,000 la	max., Sunligl	ht: 10,000 lx ma	ax.	Incandescent max.	amp: 3,000 lx	Incandescent lamp: 5,000 lx max., Su light: 10,000 lx max.	
Ambient t range	temperature	Operating: -2 Storage: -40 (with no icing		on)			Operating: -25 to +55°C Storage: -30 to +70°C (with no icing or condensa- tion)		Operating: -25 to +55°C Storage: -40 to +70°C (with no icing or condensation)	
Ambient I	humidity range	Operating: 35% Storage: 35% (with no cond	% to +95%					torage: 35% to condensation)	Operating: 35% to +85% Storage: 35% to +95% (with no condensation)	
	n resistance strength	20 MΩ min. a	at 500 VDC 0/60 Hz for 1 n	nin			AC500V, 50/6	∩ Hz for 1 min	AC1,000V, 50/60 Hz for 1 min.	
	resistance		lz, 1.5-mm dou		or 300 m/s ² for (0.5 hours each	10 to 55Hz, 1.	5-mm double 2 hours each in	10 to 2,000 Hz, 1.5-mm double amplitude or 300 m/s ² for 0.5 hours each in X , and Z directions	
Shock res		1,000 m/s ² 3	times each in	X, Y, and Z dir	ections		500 m/s ² 3 time and Z direction	es each in X, Y,	1,000m/s ² 3 times each in X, Y, and Z or rections	
	of protection IP67 (IEC 60529) IP65 (IEC 60529)		29)	IP67 (IEC 60529)						
	on method	Pre-wired (standard length: 2 m)								
weight (p	acked state)	Approx. 40 g		-1-4-)			Approx. 60 g		Approx. 20 g	
	Case	Denatured po	tylene terephth	aiate)			SUS303 Polysulfone		PBT (polybutylene terephthalate) Denatured polyarylate	
Materi-	Display window Lens	Denatured po	• •				Polysulfone		Methacrylc resin	
wateri- als	Hexagonal nuts		oiyai yial e				SUS303			
	Toothed wash-									
	ers	Instruction m	anual Philline	screws (Side-	view Sensors: N	M2 × 14 Flat	SUS303 Instruction ma	nual Hevago-	Instruction manual, Phillips screws (M2×14),	
Accessor	ies *²				Flat washers *2		nal nuts, Tooth		Nuts, Spring washers, Flat washers, E39-R4 (E3T-SR4□ only), E39-R37-CA (E3T-SR4□-S only)	

^{*1.} Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

*2. Only the *Instruction Manual* is included with an M3-mounting Sensor (E3T-ST□□M). Order the Set of Mounting Screws separately if required.

Sensing method		Diffuse-reflective		Convergent-reflective		BGS-reflective	
Appearance		Rectangular type (Flat)	Cylindrical type (Top-view)	Rectangular type (Side-view)		Rectangular type (Flat)	
Item		4 - 1					Ä.,
NPN	Light-ON	E3T-FD11 E3T-FD11M	E3T-CD11	E3T-SL11 E3T-SL11M	E3T-SL21 E3T-SL21M	E3T-FL11	E3T-FL21
output	Dark-ON	E3T-FD12 E3T-FD12M		E3T-SL12 E3T-SL12M	E3T-SL22 E3T-SL22M	E3T-FL12	E3T-FL22
PNP	Light-ON	E3T-FD13 E3T-FD13M	E3T-CD13	E3T-SL13 E3T-SL13M	E3T-SL23 E3T-SL23M	E3T-FL13	E3T-FL23
output	Dark-ON	E3T-FD14 E3T-FD14M		E3T-SL14 E3T-SL14M	E3T-SL24 E3T-SL24M	E3T-FL14	E3T-FL24
Sensing distance		5 to 30 mm (50 \times 50 mm white paper)	3 to 50 mm (100 × 100 mm white paper)	5 to 15 mm (50 × 50 mm white paper)	5 to 30 mm $(50 \times 50 \text{ mm})$ white paper)	1 to 15 mm (50 × 50 mm white paper)	1 to 30 mm (50 × 50 mm white paper)
Standard sensing object Minimum detectable object (typical)		0.15-mm dia. (sensing distance 10 mm)		0.15-mm dia. (sensing distance 10 mm)		0.15-mm dia. non-glossy object (sensing distance 10 mm)	
Hysteres	sis (white paper)	6 mm max.	15% or less of the sensing distance	2 mm max.	6 mm max.	0.5 mm max.	2 mm max.
	nite error					15% max.	
Light so	urce	Red LED (650 nm)	Infrared LED (870 nm)	Red LED (650 nm)			
	upply voltage consumption	12 to 24 VDC ±10%, ripple (p-p) 10% max.					
Control output		VDC max. Load current: 50 mA max. (residual voltage: 2 V max. for load current of 10 to 50 mA, 1 V max. for load current of less than 10 mA) Open-collector output	Load power supply voltage: 30 VDC max. Load current: 80 mA max. (residual voltage: 1 V max.) Open-collector output	Load power supply voltage: 26.4 VDC max. Load current: 50 mA max. (residual voltage: 2 V max. for load current of 10 to 50 mA, 1 V max. for load current of less than 10 mA) Open-collector output			
Protection circuits		Power supply and control output reverse polarity protection, Output short-circuit protection, Mutual interference prevention	Power supply reverse polarity protection, Output short-circuit protection	Power supply and control output reverse polarity protection, Output short-circuit protection, Mutual interference prevention			
Respons	se time	Operate or reset: 1 ms max.	Operate or reset: 0.5 ms max.	Operate or reset: 1 ms max.			
Ambient illumination		Incandescent lamp: 5,000 lx max., Sunlight: 10,000 lx max.	Incandescent lamp: 3,000 lx max.	Incandescent lamp: 5,000 lx max., Sunlight: 10,000 lx max.			
Ambient temperature range		Operating: -25 to +55°C Storage: -40 to +70°C (with no icing or condensation)	Operating: -25 to +55°C Storage: -30 to +70°C (with no icing or condensation)	Operating: -25 to +55°C Storage: -40 to +70°C (with no icing or condensation)			
Ambient	humidity range	Operating: 35% to +85% Storage: 35% to +95% (with no condensation)	Operating or Storage: 35% to +85% (with no condensation)	Operating: 35% to +85% Storage: 35% to +95% (with no condensation)			
Insulation resistance Dielectric strength		20 MΩ min. at 500 VDC 1,000 VAC, 50/60 Hz for 1 min.	500 VAC, 50/60 Hz for 1 min.	1,000 VAC, 50/60 Hz for 1 min.			
Vibration resistance (destruction)		10 to 2,000 Hz, 1.5-mm double amplitude or 300 m/s ² for 0.5 hours each in X, Y, and Z directions	10 to 55Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions	10 to 2,000 Hz, 1.5-mm double amplitude or 300 m/s² for 0.5 hours each in X, Y, and Z directions			
Shock resistance (destruction)		1,000 m/s ² 3 times each in X, Y, and Z directions	500 m/s ² 3 times each in X, Y, and Z directions	1,000m/s ² 3 times each in X, Y, and Z directions			
Degree of protection Connection method		IP67 (IEC 60529) Pre-wired (standard length: 2 m)	IP65 (IEC 60529)	IP67 (IEC 60529)			
		Approx. 20 g	Approx. 40 g	Approx. 20 g			
	Case	PBT (polybutylene terephtha- late)	SUS303	PBT (polybutylene terephthalate)			
Materi- als	Display window	Denatured polyarylate	Ероху	Denatured polyarylate			
	Lens	Denatured polyarylate	Polysulfone	Denatured polyarylate			
	Hexagonal nuts Toothed washers		SUS303 SUS303				
Accessories *		Instruction manual, Phillips screws(M2 × 8), Nuts, Spring washers, Flat washers *	Instruction manual, Hexagonal nuts, Toothed washers, Adjustment driver	Instruction man screws(M2 × 14 washers, Flat w	4), Nuts, Spring	Instruction man screws(M2 × 8) washers, Flat w	, Nuts, Spring

*Only the Instruction Manual is included with an M3-mounting Sensor (E3T-FDDDM or E3T-SLDDM). Order the Set of Mounting Screws separately if required.

Engineering Data (Typical)

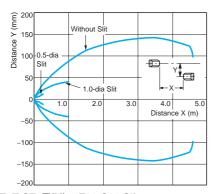
M2-mounting and M3-mounting Sensors

Parallel Operating Range

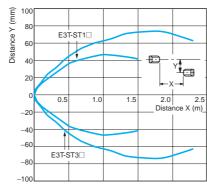
Through-beam

E3T-ST3□ + E39-S63 Slit

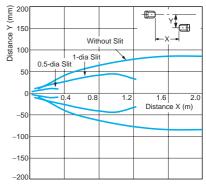
(A Slit is mounted to the Emitter and Receiver.)



E3T-ST□□ + E39-E14 Mutual interference prevention filter (A Slit is mounted to the Emitter and Receiver.)



E3T-ST1□(M) + E39-S63 Slit (A Slit is mounted to the Emitter and Receiver.)

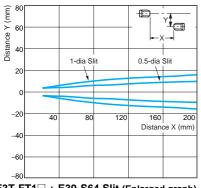


(A Slit is mounted to the Emitter and Receiver.)

(A Slit is mounted to the Emitter and Receiver.)

E3T-FT1 + E39-S64 Slit

(A Slit is mounted to the Emitter and Receiver.)



Distance Y (mm) 2 Without Slit 1 Y. 1-dia Slit √ 0.5-dia Slit 200 400 600 800 Distance X (mm) -15

150 0.2 0.4 0.8 Without Slit Distance X (m) -100

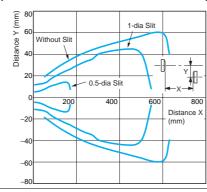
E3T-FT1 + E39-S64 Slit (Enlarged graph) (A Slit is mounted to the Emitter and Receiver.)

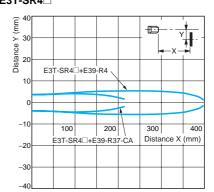
1-dia Slit

0.5-dia Slit

E3T-FT2 + E39-S64 Slit (A Slit is mounted to the Emitter and Receiver.)

Retro-reflective E3T-SR4





Operating Range

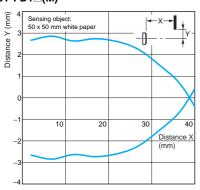
Diffuse-reflective

E3T-FD1□(M)

Distance Y (mm

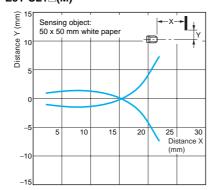
-20

-60

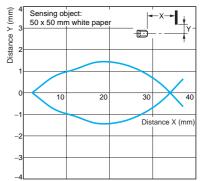


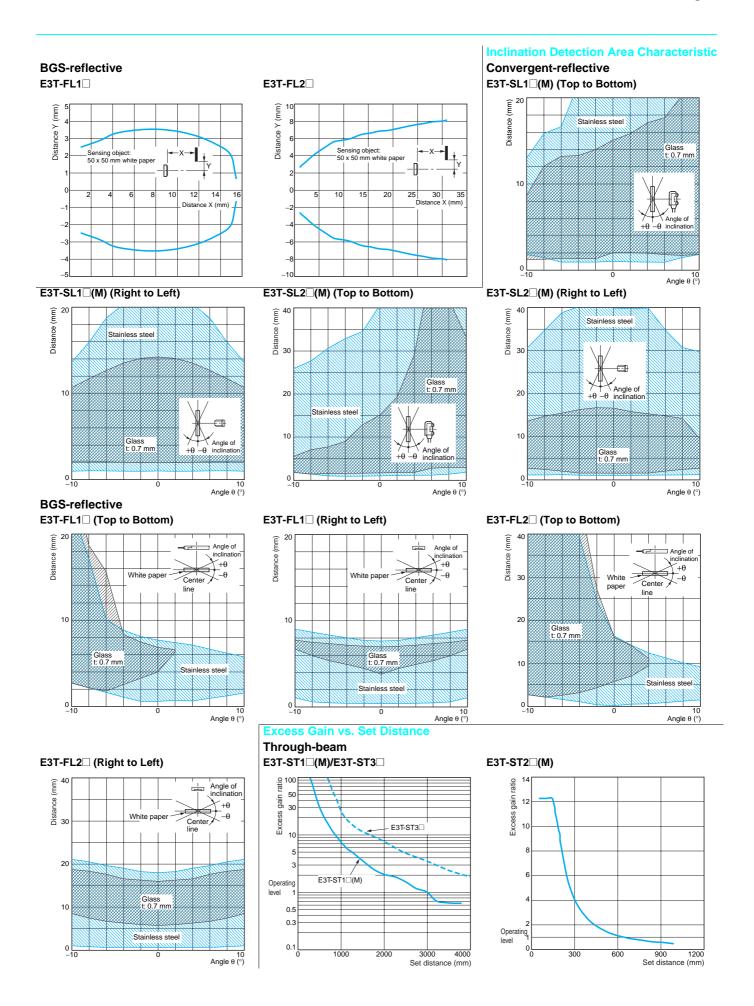
Convergent-reflective

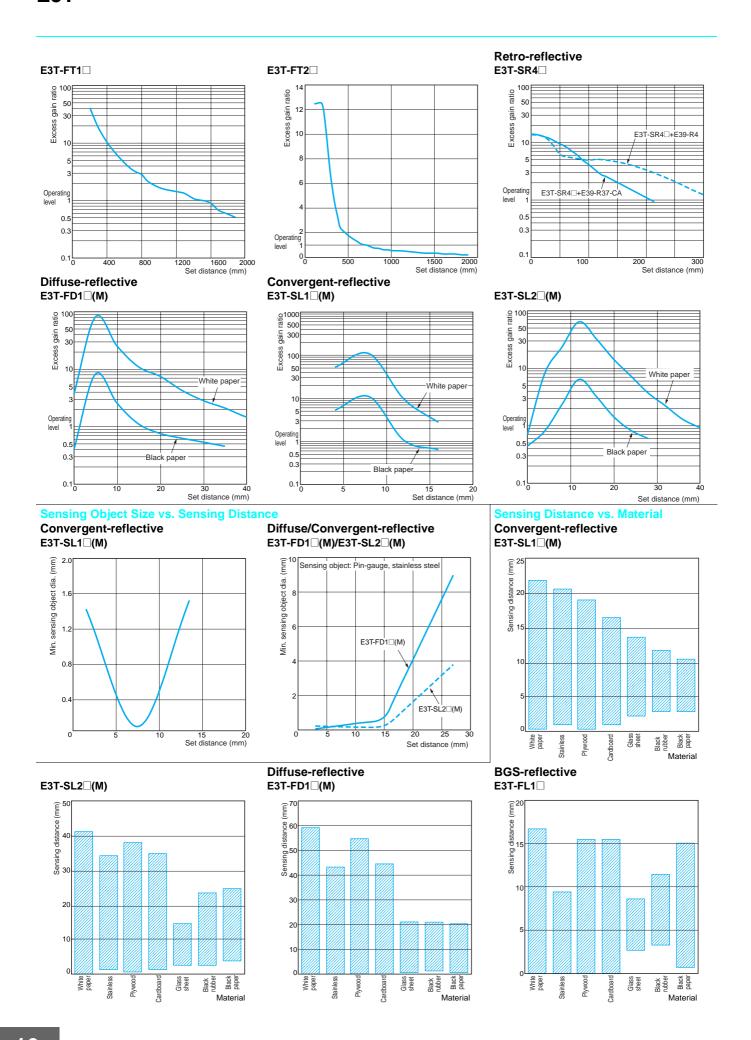
E3T-SL1□(M)



E3T-SL2□(M)

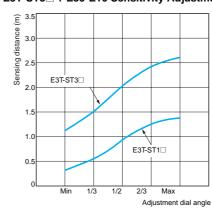


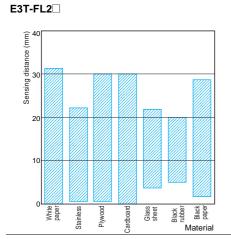




Sensing Distance Characteristics of Sensitivity Adjustment Unit (when Completing Optical Axis Adjustment)

E3T-ST1 + E39-E10 Sensitivity Adjustment Unit E3T-ST3□ + E39-E10 Sensitivity Adjustment Unit



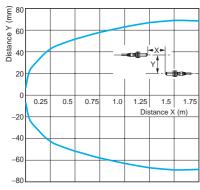


Small Cylindrical Sensors

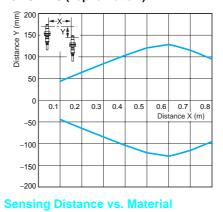
Parallel Operating Range

Through-beam

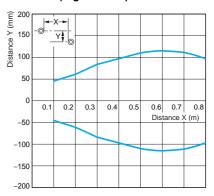
E3T-CT1□



E3T-CT2□S (Top to Bottom)



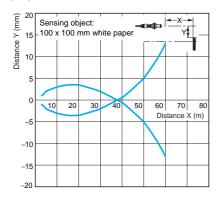
E3T-CT2□S (Right to Left)



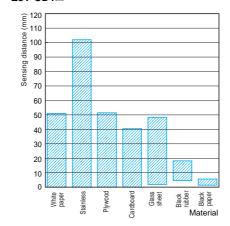
Operating Range

Diffuse-reflective

E3T-CD1□

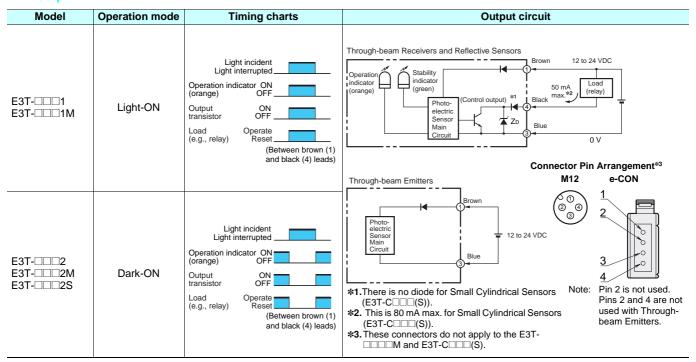


Diffuse-reflective E3T-CD1□

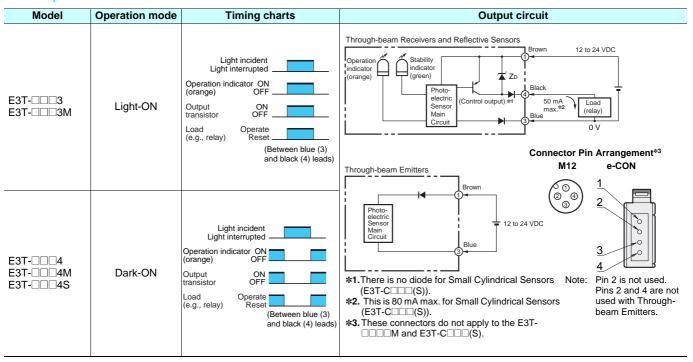


I/O Circuit Diagrams

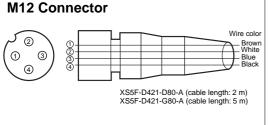
NPN Output

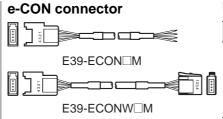


PNP Output



Plugs (Sensor I/O Connectors)





Pin arrangement

Classi- fication	Wire color	Connector pin No.	Application	
	Brown	1	Power supply (+V)	
DC	White	2		
DC	Blue	3	Power supply (0 V)	
	Black	4	Output	

Note: Pin 2 is not used. Pin 2 and 4 are not used with Through-beam Emitters.

Safety Precautions

Refer to Warranty and Limitations of Liability.

⚠ WARNING

This product is not designed or rated for ensuring safety of persons. Do not use it for such purpose.



Do not apply AC power to the E3T, otherwise the E3T may rupture.



Precautions for Correct Use

Do not use the product in atmospheres or environments that exceed product ratings.

Wiring

The maximum power supply voltage is 26.4 VDC. Before turning the power ON, make sure that the power supply voltage be not more than maximum voltage.

Load short-circuit protection

The E3T incorporates a load short-circuit protection function. If the load short-circuits, the output of the E3T will be turned OFF. Then, recheck the wiring and turn on the E3T again to reset the load short-circuit protection function. The load short-circuit protection function will work if there is a current flow that is 1.5 times larger than the rated load current. When using a capacitance load, be sure that the inrush current will not exceed 1.5 times larger than the rated current.

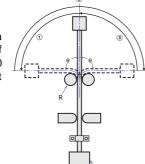
Mounting

When mounting the Sensor, never strike it with a heavy object, such as a hammer. Doing so may reduce its watertight properties. Use screws with spring, flat, or toothed washers to secure the Sensor. Tightening Torque

M2-mounting Sensors: 0.15 N·m max M3-mounting Sensors: 0.5 N·m max Small Cylindrical Sensors: 1 N·m max

Mounting the Sensor on Moving Parts

Consider models that use break resistant cables (e.g., Robotics Cables) if the Sensor will be mounted on a moving part, such as a robot hand. The flexing resistance of Robotics Cable at approximately 400 thousand times is far superior to that of standard cable at approximately 14 thousand times.



Cable Bending Rupture Test (Tough Cable Breaking Test)

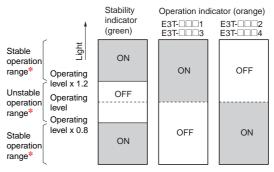
The cable is repeatedly bent with power supplied to check the number of bends until the current is turned OFF.

Test	Specimen	Standard cable 2.4-mm dia. (7/0.127-mm dia.), 3 conductors	Robotics cable 2.4-mm dia. (20/0.08-mm dia.), 3 conductors	
	Bending angle (θ)	90° each to the left and right		
Con-	Bending speed	50 times/min		
tents/	Load	200 g		
condi- tions	Operation per bend	Once in 1 to 3 in the diagram		
	Curvature radius of support point (R)	5 mm		
Result		Approx. 14.000 times	Approx. 400,000 times	

Adjusting

Indicators

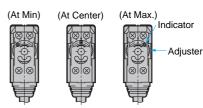
- The following graphs indicate the status of each operating level.
- Be sure to use the E3T within the stable operating range.



* If the E3T fs operating level is set to the stable operation range, the E3T will be in most reliable operation without being influenced by temperature change, voltage fluctuation, dust, or setting change. If the operating level cannot be set to the stable operation range, pay attention to environmental changes while operating the E3T.

Use of E39-E10 Sensitivity Adjustment Unit

(Dark-ON: E3T-ST12)



- 1. Mount the Unit on the Receiver.
- Set the adjuster of the Sensitivity Adjustment Unit to Max. (Before shipping: Max.)
- After mounting on the Sensor, adjust the optical axis and secure the Sensor
- 4. Place a workpiece between the Emitter and Receiver and gradually turn the adjuster counterclockwise toward the Min. side. Stop turning the adjuster when the operation indicator and stability indicator (green) turn ON.
- Remove the workpiece and confirm that the operation indicator is OFF and the stability indicator (green) is ON. This completes the adjustment.

Note: If the light attenuation rate due to a workpiece is 40% or less, the stability indicator will not turn ON whether or not light is received. When the variation of light is small such as when sensing semi-transparent workpieces, carefully perform preliminary testing.

E3T-CD Sensitivity Adjustment

Use the special screwdriver that is provided with the Sensor to adjust the sensitivity. Do not exceed 0.8 N·m when turning the adjuster.

Others

Do not install the E3T in the following locations.

- Locations subject to excessive dust or dirt
- Locations subject to direct sunlight
- Locations subject to corrosive gas
- Locations subject to contact with organic solvents
- Locations subject to vibration and shock
- Locations subject to contact with water, oil, or chemicals
- Locations subject to high humidities that might result in condensation

Sensors

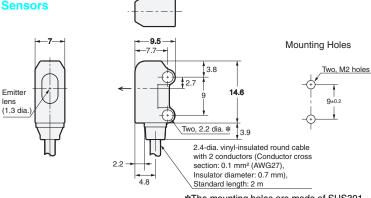
M2-mounting Sensors

Through-beam Side-view Sensors

E3T-ST1□ (Emitter) E3T-ST2□ (Emitter)



Receiver: E3T-ST -D



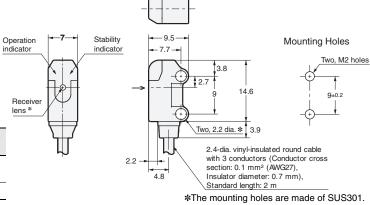
*The mounting holes are made of SUS301.

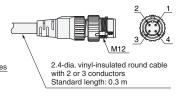
M12 Smartclick Pre-wired Connector Model (E3T-ST -M1TJ/E3T-FT -M1TJ)

E3T-ST1□ (Receiver) E3T-ST2□ (Receiver) E3T-ST3□ (Receiver)

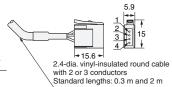
*The receiver lens diameters are given below.

Model	Receiver lens diameter
E3T-ST1□-D E3T-ST2□-D	(1.3 dia.)
E3T-ST3□-D	(2.4 dia.)





e-CON Pre-wired Connector Model (E3T-ST -ECON/E3T-FT -ECON)



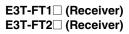
Through-beam Flat Sensors

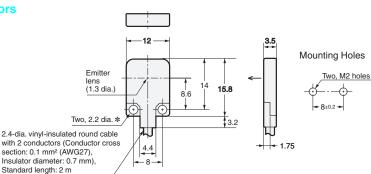
E3T-FT1 (Emitter) E3T-FT2

(Emitter)



Emitter: E3T-FT -- L
Receiver: E3T-FT -- D

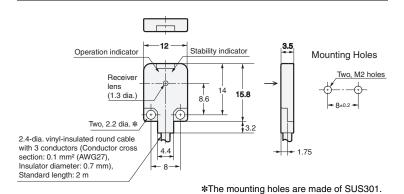




*The mounting holes are made of SUS301.

Termi- nal No.	Specifica- tions
1	+V
2	
3	0 V
4	Output (receiver only)

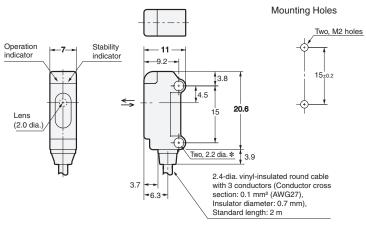
*Refer to Mounting the Sensor on Moving Parts on page 13 for details on Robotics Cable models.



Retro-reflective Side-view Sensors

E3T-SR4□





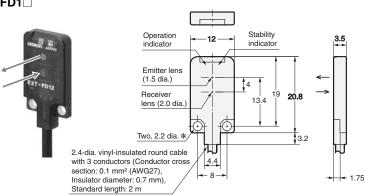
M12 Smartclick Pre-wired Connector Model (E3T-SR -- -M1TJ/E3T-FD -- -M1TJ/E3T-SL -- -M1TJ)

 \T The mounting holes are made of SUS301.

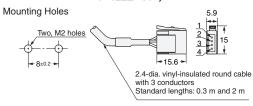
2.4-dia. vinyl-insulated round cable with 3 conductors Standard length: 0.3 m

Diffuse-reflective Flat Sensors









Terminal	Specifi-
No.	cations
1	+V
2	

*Refer to Mounting the Sensor on

3 4 0 V

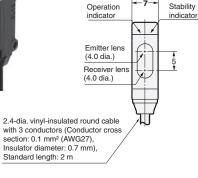
Output

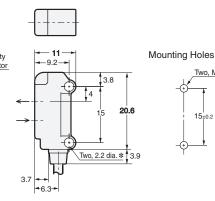
*The mounting holes are made of SUS301.

Convergent-reflective Side-view Sensors

E3T-SL1□ E3T-SL2□



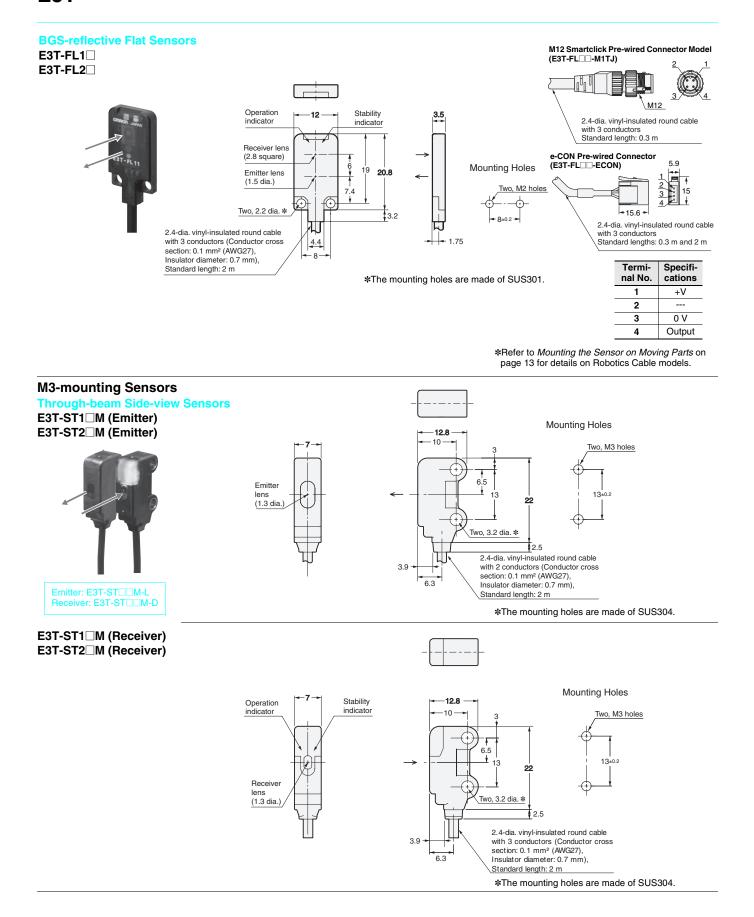




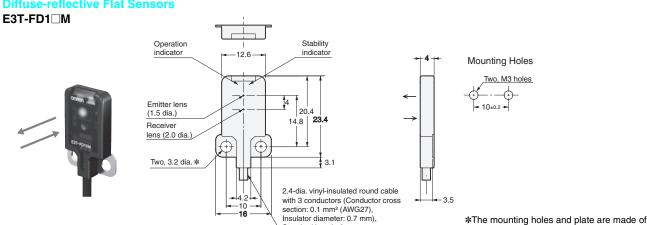
Moving Parts on page 13 for details on Robotics Cable models.

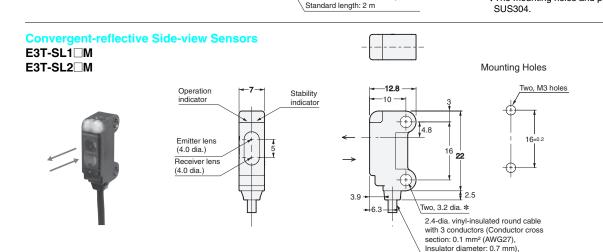
Two, M2 holes

*The mounting holes are made of SUS301.



Diffuse-reflective Flat Sensors



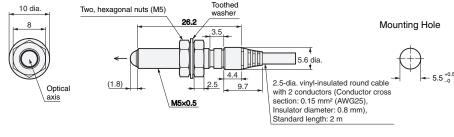


*The mounting holes are made of SUS304.

Small Cylindrical Sensors



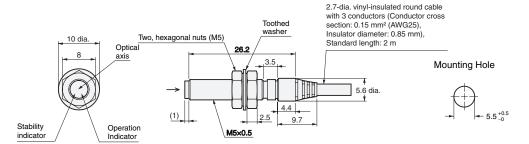


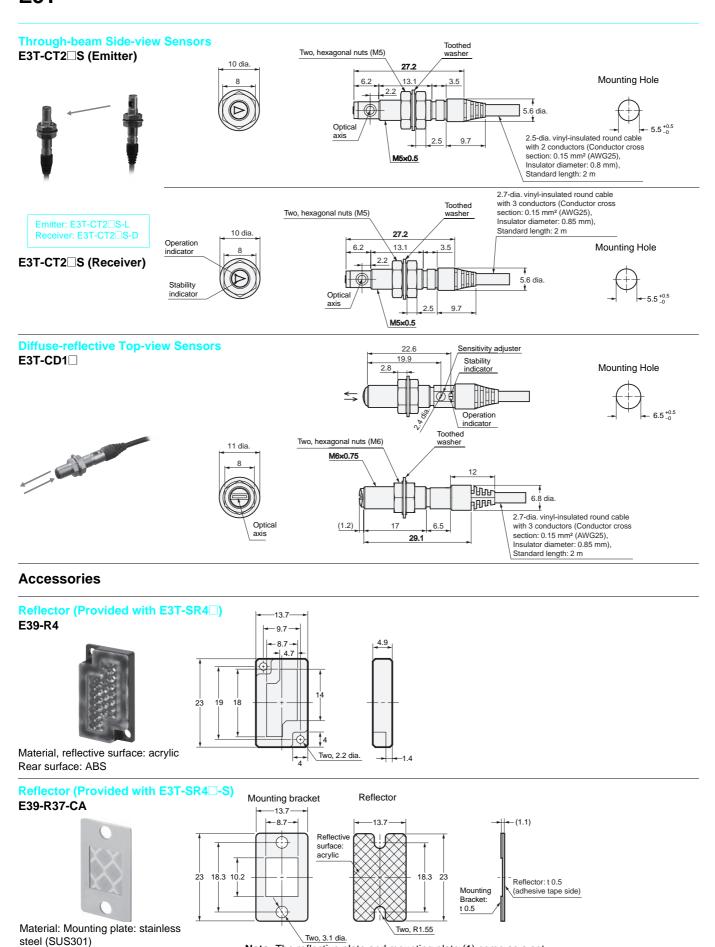


Standard length: 2 m

Emitter: E3T-CT1□-L Receiver: E3T-CT1□-D

E3T-CT1□ (Receiver)





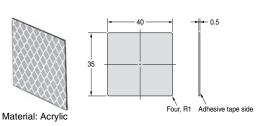
Note: The reflective plate and mounting plate (1) come as a set.

Reflective surface: acrylic

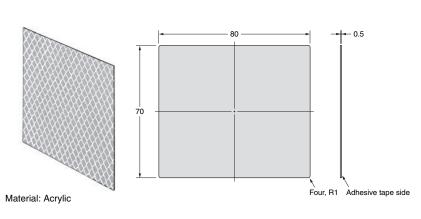
Accessories (Order Separately)

Tape Reflectors E39-RS1-CA Tour, R1 Adhesive tape side Material: Acrylic

E39-RS2-CA

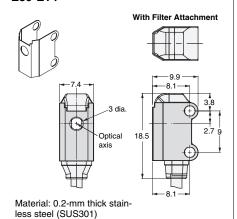


E39-RS3-CA



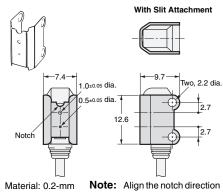
Mutual Interference Prevention Filter for E3T-ST3□/ST1□ Through-beam Sensors

E39-E14



Slit for E3T-ST□□ Through-beam Sensors

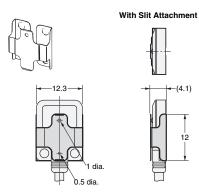
E39-S63



Material: 0.2-mm Note: Align the notch direction of the Slit when (SUS301) Installing on the Emitter and Receiver.

Slit for E3T-FT□□ Through-beam Sensors

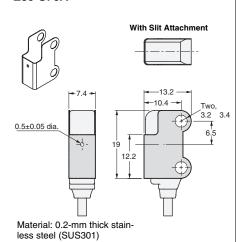
E39-S64



Material: 0.1-mm thick stainless steel (SUS301)

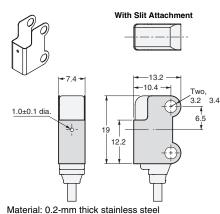
0.5-dia Slit for E3T-ST□□M Through-beam Sensors

E39-S76A



1-dia Slit for E3T-ST□□M Through-beam Sensors

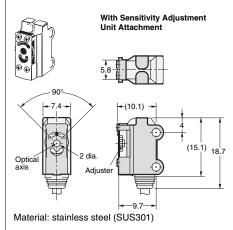
E39-S76B



Material: 0.2-mm thick stainless steel (SUS301)

Sensitivity Adjustment Unit for E3T-ST1□/ST3□ Through-beam Sensors

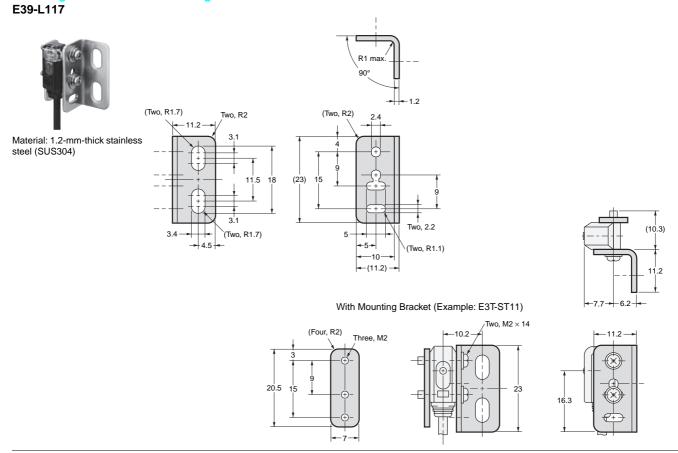
E39-E10



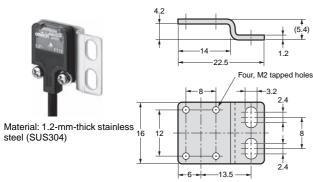
E3T

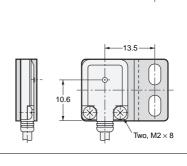
Mounting Bracket for M2-mounting Side-view Sensors (Two, R1.7) E39-L116 (17.8) 7.5 /(Two, R2) Material: 1.2-mm-thick (10.3) stainless steel (SUS304) (Two, R1.1) 31.2 9.5 6.2 (Two, R1.2) With Mounting Bracket (Example: E3T-ST11) R1.5 max. -10-(Four, R2) Two, $M2 \times 14$ Three, M2 20.5 31.2 24.5

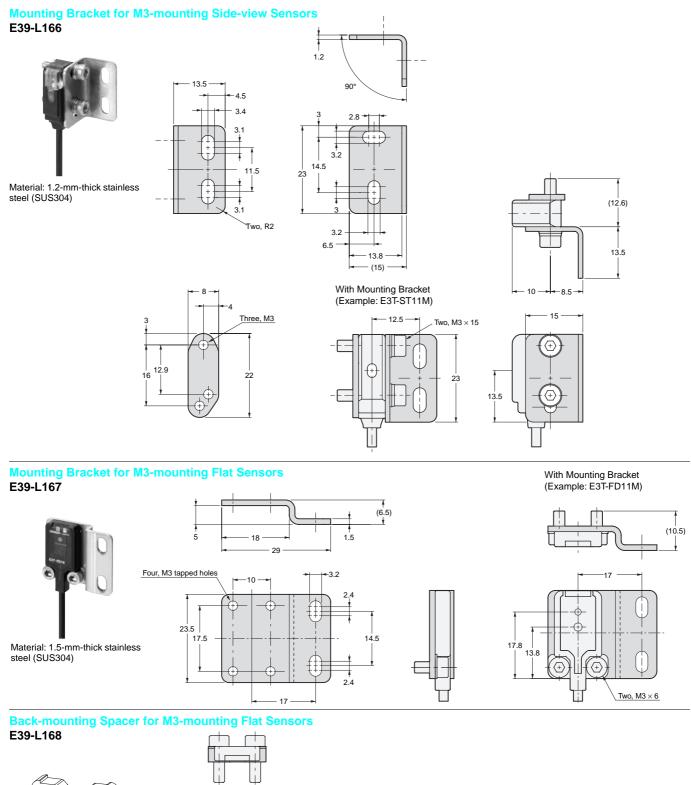
Mounting Bracket for M2-mounting Side-view Sensors

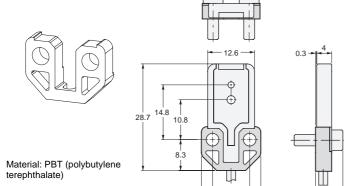


Mounting Bracket for M2-mounting Side-view Sensors E39-L118 (Two, R1.7) -2.4 4.5 Material: 1.2-mm-thick stainless steel (SUS304) 11.5 18 (23) 3.4 (Two, R1.1) (Four, R2) With Mounting Bracket (Example: E3T-ST11) (Four, R2) Two, M2 × 14 Three, M2 20.5 **Mounting Bracket for M2-mounting Flat Sensors** E39-L119 With Mounting Bracket (Example: E3T-FT11) 10.5 -15 Four, M2 tapped holes Material: 1.2-mm-thick stainless steel (SUS304) 10.6 **Mounting Bracket for M2-mounting Flat Sensors** With Mounting Bracket E39-L120 (Example: E3T-FT11) (6.4)









10

(7.3)

Note: Use this Spacer when mounting the Sensor from the back.

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