

Ultracompact, Ultrathin Photoelectric Sensor with Built-in Amplifier

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-□T□□(M)F).



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
	Side-view	M2-mounting	•	•		•	
Rectangular	T	M3-mounting	•			•	
type	Flat	M2-mounting	•		•		•
		M3-mounting			•		
Cylindrical type	Top-view		•		•		
	Side-view		•				

Ordering Information

Sensors [Refer to Dimensions on page 16.]

A set of mounting screws is included with the Sensor.

Red light Infrared light

Sensing method	Annogrange	Consing distance	Operation mode	Model		
Sensing method	Appearance	Sensing distance	Sensing distance Operation mode NPN output			
		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	
		300 11111	Dark-ON	E3T-ST22 2M	E3T-ST24 2M	
)) 0	Light-ON	E3T-ST31F 2M	E3T-ST33F 2M	
Through-beam		2 m	Dark-ON	E3T-ST32F 2M	E3T-ST34F 2M	
Emitter			Light-ON	E3T-ST11F 2M	E3T-ST13F 2M	
+		(1 m	Dark-ON	E3T-ST12F 2M	E3T-ST14F 2M	
Receiver		000	Light-ON	E3T-ST21F 2M	E3T-ST23F 2M	
' '		300 mm	Dark-ON	E3T-ST22F 2M	E3T-ST24F 2M	
			Light-ON	E3T-FT11 2M ^{*4}	E3T-FT13 2M*4	
		500 mm	Dark-ON	E3T-FT12 2M ^{*4}	E3T-FT14 2M ^{*4}	
			Light-ON	E3T-FT21 2M	E3T-FT23 2M	
	三 靈	300 mm	Dark-ON	E3T-FT22 2M	E3T-FT24 2M	
			Light-ON	E3T-FT11F 2M	E3T-FT13F 2M	
	7 1 1	500 mm	Dark-ON	E3T-FT12F 2M	E3T-FT14F 2M	
			Light-ON	E3T-FT21F 2M	E3T-FT23F 2M	
		300 mm	Dark-ON	E3T-FT22F 2M	E3T-FT24F 2M	
Retro-		Using the E39-R4 Reflector provided 200 mm [30 mm] *2	Light-ON	E3T-SR41 2M*3*4	E3T-SR43 2M'3'4	
reflective		Using the E39-R37-CA 100 mm [10 mm] *2	Dark-ON	E3T-SR42 2M'3'4	E3T-SR44 2M'3'4	
Diffuse-	/1	5 to 30 mm	Light-ON	E3T-FD11 2M ^{*4}	E3T-FD13 2M ²	
reflective	- T	5 10 30 11111	Dark-ON	E3T-FD12 2M ^{*4}	E3T-FD14 2M ^{*4}	
	(P)	E to 15 mm	Light-ON	E3T-SL11 2M*4	E3T-SL13 2M*4	
Limited-		5 to 15 mm	Dark-ON	E3T-SL12 2M*4	E3T-SL14 2M*4	
reflective		5 to 20 mm	Light-ON	E3T-SL21 2M*4	E3T-SL23 2M*4	
	1	5 to 30 mm	Dark-ON	E3T-SL22 2M*4	E3T-SL24 2M*4	
		II 4 to 45	Light-ON	E3T-FL11 2M ^{*4}	E3T-FL13 2M ^{*4}	
BGS-		1 to 15 mm	Dark-ON	E3T-FL12 2M ^{*4}	E3T-FL14 2M ^{*4}	
reflective			Light-ON	E3T-FL21 2M ^{*4}	E3T-FL23 2M ⁻⁴	
		1 to 30 mm	Dark-ON	E3T-FL22 2M*4	E3T-FL24 2M ^{*4}	

A set of mounting serous is not included with the Sensor, Order a Serow Set senerately if required

Sensing method	Appearance	Sensing distance	Operation mode		Model
sensing memod	Appearance	Sensing distance	Operation mode	NPN output	PNP output
) 1 m	Light-ON	E3T-ST11M 2M	E3T-ST13M 2M
			Dark-ON	E3T-ST12M 2M	E3T-ST14M 2M
Through-beam	40	300 mm	Light-ON	E3T-ST21M 2M	E3T-ST23M 2M
/ *1		300 11111	Dark-ON	E3T-ST22M 2M	E3T-ST24M 2M
Emitter + Receiver)) 4	Light-ON	E3T-ST11MF 2M	E3T-ST13MF 2M
		(1 m	Dark-ON	E3T-ST12MF 2M	E3T-ST14MF 2M
		200	Light-ON	E3T-ST21MF 2M	E3T-ST23MF 2M
		300 mm	Dark-ON	E3T-ST22MF 2M	E3T-ST24MF 2M
Diffuse-		5 to 20 mm	Light-ON	E3T-FD11M 2M	E3T-FD13M 2M
reflective		5 to 30 mm	Dark-ON	E3T-FD12M 2M	E3T-FD14M 2M
		5 to 15 mm	Light-ON	E3T-SL11M 2M	E3T-SL13M 2M
Limited-			Dark-ON	E3T-SL12M 2M	E3T-SL14M 2M
reflective		5 to 30 mm	Light-ON	E3T-SL21M 2M	E3T-SL23M 2M
	ı	3 10 30 IIIII	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)

Small Cylindrical Sensors A set of mounting nuts is included with the Sensor.

Sensing method	Appearance	Sensing distance	Operation mode	Mc	odel
Sensing method	Appearance	Sensing distance	Operation mode	NPN output	PNP output
Through boom	- Alexander) 1 m	Light-ON		
Through-beam / Emitter	- Aller L		Dark-ON	E3T-CT12 2M	E3T-CT14 2M
+ Receiver	+	500 mm	Light-ON		
()		300 111111	Dark-ON	E3T-CT22S 2M	E3T-CT24S 2M
Diffuse- reflective		☐ 3 to 50 mm	Light-ON	E3T-CD11 2M	E3T-CD13 2M
(with adjuster)		0 10 30 11111	Dark-ON		

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	
		E3T-ST3□□				Sensing distance 200 mm, Minimum detectable object (reference value) 0.5-mm dia.	
	0.5 dia.	E3T-ST1□□			21	Sensing distance 100 mm, Minimum detectable object (reference value) 0.5-mm dia.	
Slit for Through-beam		E3T-ST2□□	F00 000	2 (One each for Emitter and Receiver; common with Slit widths of 1 dia. and 0.5 dia.)		Sensing distance 30 mm, Minimum detectable object (reference value) 0.5-mm dia.	
Side-view Sensors		E3T-ST3□□	E39-S63			Sensing distance 600 mm, Minimum detectable object (reference value) 1-mm dia.	
	1 dia.	E3T-ST1□□				Sensing distance 300 mm, Minimum detectable object (reference value) 1-mm dia.	
		E3T-ST2□□				Sensing distance 100 mm, Minimum detectable object (reference value) 1-mm dia.	
	O.F. dia	E3T-FT1□□				Sensing distance 50 mm, Minimum detectable object (reference value) 0.5-mm dia.	
Slit for Through-beam	0.5 dia.	E3T-FT2□□	F00 004			Sensing distance 30 mm, Minimum detectable object (reference value) 0.5-mm dia.	
Flat Sensors	4 -11-	E3T-FT1□□	E39-S64			Sensing distance 100 mm, Minimum detectable object (reference value) 1-mm dia.	
	1 dia.	E3T-FT2				Sensing distance 50 mm, Minimum detectable object (reference value) 1-mm dia.	
Sensitivity Adjustment Unit for Through-beam Side-view Sensors with		E3T-ST3□	E39-E10	1		Sensing distance (reference value) 1,200 to 1,800 mm	
Red Light		E3T-ST1□				Sensing distance (reference value) 300 to 800 mm	
			E39-L116		22		
Mounting Brackets for Sic sors *1	de-view Sen-	E3T-S	E39-L117	1	22	Nut plate provided	
			E39-L118	1			
Mounting Brackets for Fla	+ Canaara *1	E3T-F	E39-L119		23		
Woulding Brackets for Fla	ii Serisors	E31-F	E39-L120				
Screw Set for Side-view S	Sensors *2*3	E3T-S	E39-L164	2 for each		Material: Iron (Same type as provided with the Sensor.) Contents: Set screws (M2×14), Hexagonal nuts	
Screw Set for Flat Sensors *2*3		E3T-F	E39-L165	- 2 for each		Material: Iron (Same type as provided with the Sensor.) Contents: Set screws (M2×8), Hexagonal nuts	
SUS Screw Set for Flat Sensors *2		E3T-F	E39-L172	2		Material: SUS304 Contents: Bolt with hexagonal hole (M2×6)	
SUS Screw Set for Side-view Sensors		E3T-S□□□□	E39-L173	2 for each		Material: SUS304 Contents: Bolt with hexagonal hole (M2×12), Hex agonal nuts, Spring washers, Flat washers	

^{*1.} When using Through-beam Sensors (E3T-ST | E3T-FT | O, order one Bracket for the Emitter and one for the Receiver.

*2. Order two Sets, one for the Emitter and one for the Receiver, for Through-beam Sensors (E3T-ST | Or E3T-FT | O).

This is the Screw Set for mounting the Sensor to the Mounting Bracket. Order this Set if you lose the screws. Do not use this Screw Set to mount the Mounting Bracket to the equipment. ***3.** 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		Applicable Sensor	Model	Quantity	Dimensions page	Remarks
	0.5	E3T-ST1□M□	-E39-S76A			Sensing distance 100 mm, Minimum detectable object (reference value) 0.5-mm dia.
Slits for Through-beam	dia.	E3T-ST2□M□	L33-370A	2 (One each for		Sensing distance 30 mm, Minimum detectable object (reference value) 0.5-mm dia.
Side-view Sensors	1 dia.	E3T-ST1□M□	-E39-S76B	Emitter and Receiver)		Sensing distance 300 mm, Minimum detectable object (reference value) 1-mm dia.
	i dia.	E3T-ST2□M□	L33-370D			Sensing distance 100 mm, Minimum detectable object (reference value) 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	24	
Back-mounting Spacer for F sors	lat Sen-		E39-L168			Use this Spacer when mounting a Flat Sensor (E3T-FD□□M) from the back.
SUS Screw Set for Flat Sensors *2		w Set for Flat Sensors *2 E3T-FD□□M		2		Material: SUS304 Contents: Bolt with hexagonal hole (M3×6)
SUS Screw Set for Side-view Sensors *2*3		E3T-S□□M□	E39-L171	2 for each		Material: SUS304 Contents: Bolt with hexagonal hole (M3×15), Hexagonal nuts, Spring washers, Flat washers

^{*1.}When using Through-beam Sensors (E3T-ST $\square\square$ M \square), order one Bracket for the Emitter and one for the Receiver.

Accessories for Small Cylindrical Sensors

Name	Applicable Sensor	Model	Quantity	Dimensions Page	Remarks	
	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□□	

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

Accessories for All Sensors

Name	Applicable Sensor	Model	Quantity	Dimensions Page	Remarks	
Small Reflectors	E3T-SR4□	E39-R4		20	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	1	20	Sensing distance 100 mm [10 mm] *1 Minimum detectable object 2-mm dia. Provided with the E3T-SR4□-S	
		E39-RS1-CA *2	,	21	Sensing distance 100 mm [10 mm] *1 Minimum detectable object 2-mm dia.	
Tape Reflectors (for Retro-reflective Sensors)	E3T-SR4□-C	E39-RS2-CA *2			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.

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

^{*3.} Order two Sets, one for the Emitter and one for the Receiver, for Through-beam Sensors (E3T-ST□□M□).

^{*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

		Thursday bearing									
	Sensing method					Throug	gh-beam				
	Appearance			Rectangular	type (Side-view	v)			Rectangula	r type (Flat)	
ltem								tri ng			
NPN Light-ON		E3T-ST31	E3T-ST31F	E3T-ST11 E3T-ST11M	E3T-ST11F E3T-ST11MF	E3T-ST21 E3T-ST21M	E3T-ST21F E3T-ST21MF	E3T-FT11	E3T-FT11F	E3T-FT21	E3T-FT21F
output	Dark-ON	E3T-ST32	E3T-ST32F	E3T-ST12 E3T-ST12M	E3T-ST12F E3T-ST12MF	E3T-ST22 E3T-ST22M	E3T-ST22F E3T-ST22MF	E3T-FT12	E3T-FT12F	E3T-FT22	E3T-FT22F
PNP	Light-ON	E3T-ST33	E3T-ST33F	E3T-ST13 E3T-ST13M	E3T-ST13F E3T-ST13MF	E3T-ST23 E3T-ST23M	E3T-ST23F E3T-ST23MF	E3T-FT13	E3T-FT13F	E3T-FT23	E3T-FT23F
output	Dark-ON	E3T-ST34	E3T-ST34F	E3T-ST14 E3T-ST14M	E3T-ST14F E3T-ST14MF	E3T-ST24 E3T-ST24M	E3T-ST24F E3T-ST24MF	E3T-FT14	E3T-FT14F	E3T-FT24	E3T-FT24F
Sensing d	listance	2 m		1 m		300 mm		500 mm		300 mm	
Standard	sensing object	Opaque, 3-r	nm dia. min.	Opaque, 2-m	m dia. min.			Opaque, 1.3	-mm dia. min.		
Minimum (reference	detectable object e value)	Opaque, 3-r	nm dia.	Opaque, 2-m	m dia.			Opaque, 1.3	-mm dia.		
Hysteresi	s (white paper)										
Black/whi	te error										
Directiona	al angle	Emitter: 2° to Receiver: 2° Red LED	o to 70°					Emitter: 3° to Receiver: 3°	min.	T	
	Light source (wavelength)		Infrared LED (860 nm)	Red LED (650 nm)	Infrared LED (860 nm)	Red LED (650 nm)	Infrared LED (860 nm)	Red LED (650 nm)	Infrared LED (860 nm)	Red LED (650 nm)	Infrared LED (860 nm)
Power supply voltage 12 to 24 VDC ±10%, ripple (p-p)											
Current consumption 30 mA max. (Emitter 10 mA max., Receiver 20 mA max.)											
Control 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 to Open-collector output				s than 10 mA)	1						
Indicators	1	Operation indicator (orange), Stability indicator (green)									
Protection	n circuits		ly and control o t-circuit protecti		polarity protection	on,					
Response		•	eset: 1 ms max								
Ambient i	llumination			x max., Sunlig	ht: 10,000 lx ma	X.					
Ambient t	emperature	Operating: - Storage: -40 (with no icin		ion)							
Ambient h	numidity range	Operating: 3 Storage: 35° (with no con	% to 95%								
Insulation	resistance	20 $M\Omega$ min.	at 500 VDC								
Dielectric	strength	AC1,000V, 5	50/60 Hz for 1 r	nin.							
Vibration (destruction	resistance on)	10 to 2,000	Hz, 1.5-mm do	uble amplitude	or 300 m/s ² for	0.5 hours each	n in X, Y, and Z	directions			
Shock resistance (destruction) 1,000 m/s² 3 times each in X, Y, and Z directions											
Degree of protection IEC 60529 IP67											
Connection method Pre-wired (standard length: 2 m)											
Weight (packed state) Approx. 40 g											
	Case	,, ,	itylene terephth	ialate)							
	Display window	Denatured p									
Materi- als	Lens	Denatured p	oolyarylate								
uio	Hexagonal nuts										
	Toothed wash- ers										
Accessori	ies *	Instruction n	nanual, Set scr	ews for mount	ing (Side-view S	ensors: M2 × 1	4, Flat Sensors	$M2 \times 8$), Nuts	3		

^{*} Only the *Instruction Manual* is included with an M3-mounting Sensor (E3T-ST\\(\Box\)M(F)). Order the Set of Mounting Screws separately if required.

	Sensing method	Throu	gh-beam	Retro-reflective (without M.S.R. function)		
	Appearance	Cylindrical type (Top-view)	Cylindrical type (Side-view)	Rectangular type (Side-view)		
tem						
	Light-ON			E3T-SR41		
NPN output	Dark-ON	E3T-CT12	E3T-CT22S	E3T-SR42		
PNP	Light-ON			E3T-SR43		
output	Dark-ON	E3T-CT14	E3T-CT24S	E3T-SR44		
Sensing (distance	1 m	500 mm	200 mm [30 mm] * (Using the E39-R4) 100 mm [10 mm] * (Using the E39-R37-CA)		
Standard	sensing object	Opaque, 4-mm dia. min. Opaque, 5-mm dia. min.		Opaque, 27-mm dia. min.		
Minimum (referenc	detectable object e value)		2-mm dia. (Sensing distance 100 mm)			
Hysteres	is (white paper)			·		
Black/wh	ite error					
Direction	al angle	Receiver: 2°	Receiver: 10°	2° to 20°		
ight sou	ırce (wavelength)	Red LED (630 nm)	Red LED (625 nm)	Red LED (650 nm)		
Power su	ipply voltage	12 to 24 VDC \pm 10%, ripple (p-p) 10% max.				
Current c	consumption	30 mA max. (Emitter 15 mA max., Receiver 15	5 mA max.)	20 mA max.		
Control o	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		
ndicator	s	Operation indicator (orange), Stability indicator				
Protectio	n circuits	Power supply reverse polarity protection, Output short-circuit protection		Power supply and control output reverse polar ity protection, Output short-circuit protection, Mutual interference prevention		
Respons	e time	Operate or reset: 0.5 ms max.	Operate or reset: 1 ms max.			
Ambient	illumination	Incandescent lamp: 3,000 lx max.		Incandescent lamp: 5,000 lx max., Sunlight: 10,000 lx max.		
Ambient range	temperature	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 or Storage: 35% to 85% (with no co	Operating: 35% to 85% Storage: 35% to 95% (with no condensation)			
Insulatio	n resistance	20 M Ω min. at 500 VDC				
Dielectric	strength	AC500V, 50/60 Hz for 1 min.		AC1,000V, 50/60 Hz for 1 min.		
Vibration (destruct	resistance ion)	10 to 55 Hz, 1.5-mm double amplitude for 2 ho	ours each in X, Y, and Z directions	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		
Shock readestruct		500 m/s ² 3 times each in X, Y, and Z directions	3	1,000m/s ² 3 times each in X, Y, and Z directions		
Degree o	f protection	IEC 60529 IP65		IEC 60529 IP67		
	on method	Pre-wired (standard length: 2 m)				
Weight (p	packed state)	Approx. 60 g		Approx. 20 g		
	Case	SUS303		PBT (polybutylene terephthalate)		
	Display window	Polysulfone		Denatured polyarylate		
Materi- als	Lens	Polysulfone		Methacrylc resin		
	Hexagonal nuts	SUS303				
	Toothed wash- ers	SUS303				
Accessories Instruction manual, Hexagonal nuts,			washers	Instruction manual, Set screws for mounting (M2×14), Nuts, E39-R4 (E3T-SR4□ only), E39-R37-CA (E3T-SR4□-S only)		

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

Sensing method Appearance		Diffuse-	reflective	Limited	-reflective	BGS-ı	eflective				
		Rectangular type (Flat)	Cylindrical type (Top-view)	Rectangular t	Rectangular type (Side-view)		Rectangular type (Flat)				
Item					ı						
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-SL12M E3T-SL22M		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	ı distance	5 to 30 mm (50 \times 50 mm white paper)	3 to 50 mm (100 × 100 mm white paper)	$ \begin{array}{cccc} 5 \text{ to } 15 \text{ mm} & 5 \text{ to } 30 \text{ mm} \\ (50 \times 50 \text{ mm} & (50 \times 50 \text{ mm} \\ \text{white paper}) & \text{white paper}) \end{array} $		1 to 15 mm (50 × 50 mm white paper)	1 to 30 mm $(50 \times 50 \text{ mm})$ white paper)				
	d sensing object	0.45	T	0.45		0.45					
	m detectable reference value)	0.15-mm dia. (sensing distance 10 mm)		0.15-mm dia. (sensing distan	ce 10 mm)	0.15-mm dia. r (sensing distar	non-glossy obje nce 10 mm)				
Hysteresis (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.				
Black/w	hite error					15% max.					
	nal angle		1	1							
Light source (wavelength)		Red LED (650 nm)	Infrared LED (870 nm)	Red LED (650	nm)						
	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 or rent of 10 to 50 mA, 1 V max. for load current of less than 10 m Open-collector output							
ndicato Protecti	on circuits	Operation indicator (orange), Sta Power supply and control output reverse polarity protection, Output short-circuit protection,	Power supply reverse polarity protection, Output short-circuit protection	Power supply and control output reverse polarity protection, Output short-circuit protection, Mutual interference prevention			protection,				
Respons	se time	Mutual interference prevention Operate or reset: 1 ms max.	Operate or reset: 0.5 ms max.	Operate or reset: 1 ms max.							
•	t 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 range	t temperature	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)							
	t humidity range	Operating: 35% to 85% Storage: 35% to 95% (with no condensation)	Operating or Storage: 35% to 85% (with no condensation)	Operating: 35% Storage: 35% t (with no conde	o 95%						
	on resistance ic 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.						
Vibratio (destruct	n resistance tion)	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, each in X, Y, a	1.5-mm double a nd Z directions	mplitude or 300 i	m/s² for 0.5 hou				
Shock resistance (destruction)		1,000 m/s ² 3 times each in X, Y, and Z directions	500 m/s² 3 times each in X, Y, and Z directions			and Z directions	1,000m/s ² 3 times each in X, Y, and Z directions				
(destruct		IEC 60529 IP67	IEC 60529 IP65	IEC 60529 IP6	7	IEC 60529 IP67					
destruct	of protection										
destruct Degree Connect	of protection tion method	Pre-wired (standard length: 2 m)		Approx 20 a							
(destruct Degree Connect	of protection	Pre-wired (standard length: 2 m) Approx. 20 g PBT (polybutylene terephtha-	Approx. 40 g SUS303	Approx. 20 g	ene terephthalate)					
destruct Degree Connect Weight (of protection tion method (packed state)	Pre-wired (standard length: 2 m) Approx. 20 g	Approx. 40 g)					
destruct Degree Connect Weight (of protection tion method (packed state) Case Display window Lens	Pre-wired (standard length: 2 m) Approx. 20 g PBT (polybutylene terephtha- late)	Approx. 40 g SUS303	PBT (polybutyle	arylate)					
(destruct Degree Connect	of protection tion method (packed state) Case Display window	Pre-wired (standard length: 2 m) Approx. 20 g PBT (polybutylene terephtha- late) Denatured polyarylate	Approx. 40 g SUS303 Epoxy	PBT (polybutyle	arylate)					

^{*} Only the Instruction Manual is included with an M3-mounting Sensor (E3T-FD M or E3T-SL M). Order the Set of Mounting Screws separately if required.

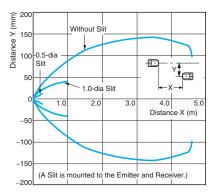
Engineering Data (Reference Value)

M2-mounting and M3-mounting Sensors

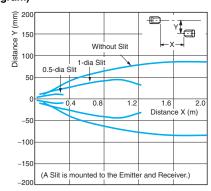
Parallel Operating Range

Through-beam

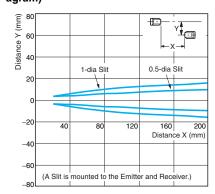
E3T-ST3□ + E39-S63



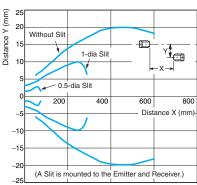
E3T-ST1□ + E39-S63 E3T-ST1□M + E39-S76A/S76B (Overall Diagram)



E3T-ST1□ + E39-S63 E3T-ST1□M + E39-S76A/S76B (Enlarged Diagram)



E3T-ST2□ + E39-S63 E3T-ST2□M + E39-S76A/S76B



E3T-ST3 F + E39-S63

0.5-dia Slit

Distance Y (mm)

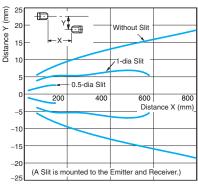
-100

-200

d Receiver.)

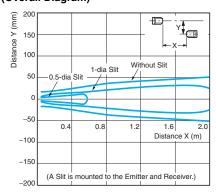
E3T-ST2□F + E39-S63 E3T-ST2□MF + E39-S76A/S76B

Without Slit

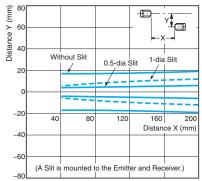


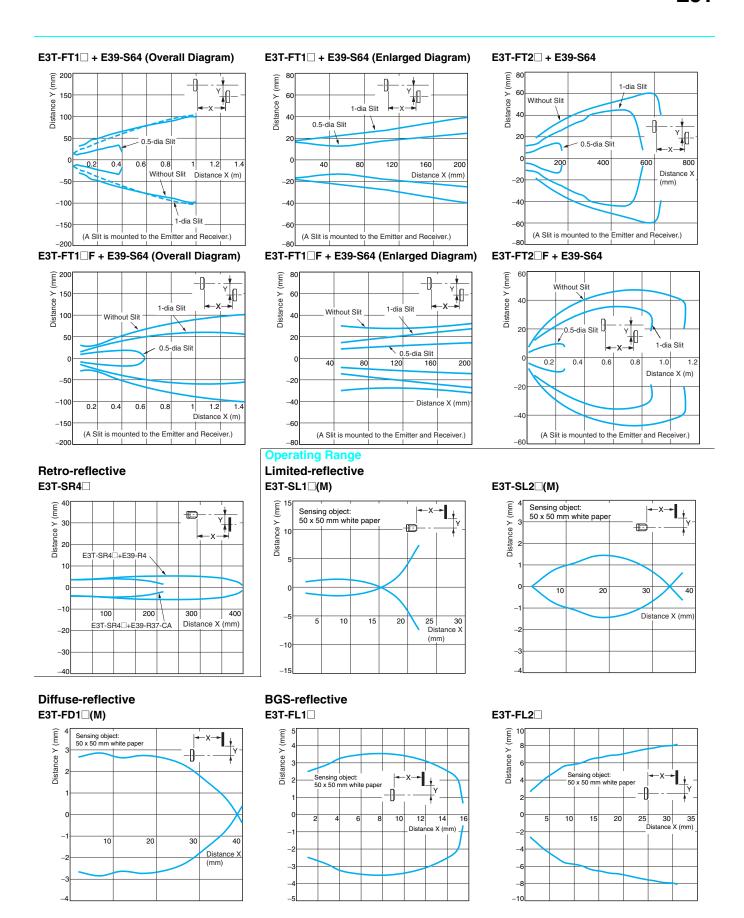
(A Slit is mounted to the Emitter and Receiver.)

E3T-ST1□F + E39-S63 E3T-ST1□MF + E39-S76A/S76B (Overall Diagram)



E3T-ST1□F + E39-S63 E3T-ST1□MF + E39-S76A/S76B (Enlarged Diagram)

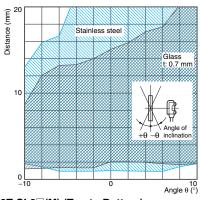




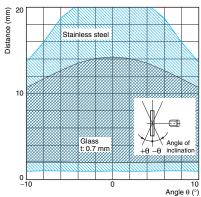
Inclination Detection Area Characteristic

Limited-reflective

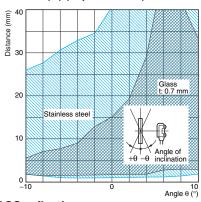
E3T-SL1□(M) (Top to Bottom)



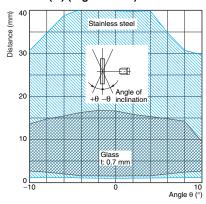
E3T-SL1□(M) (Right to Left)



E3T-SL2□(M) (Top to Bottom)

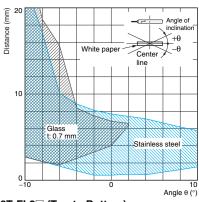


E3T-SL2□(M) (Right to Left)

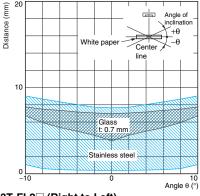


BGS-reflective

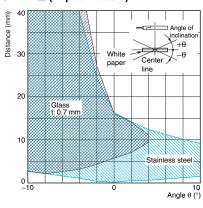
E3T-FL1□ (Top to Bottom)



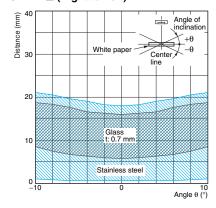
E3T-FL1□ (Right to Left)



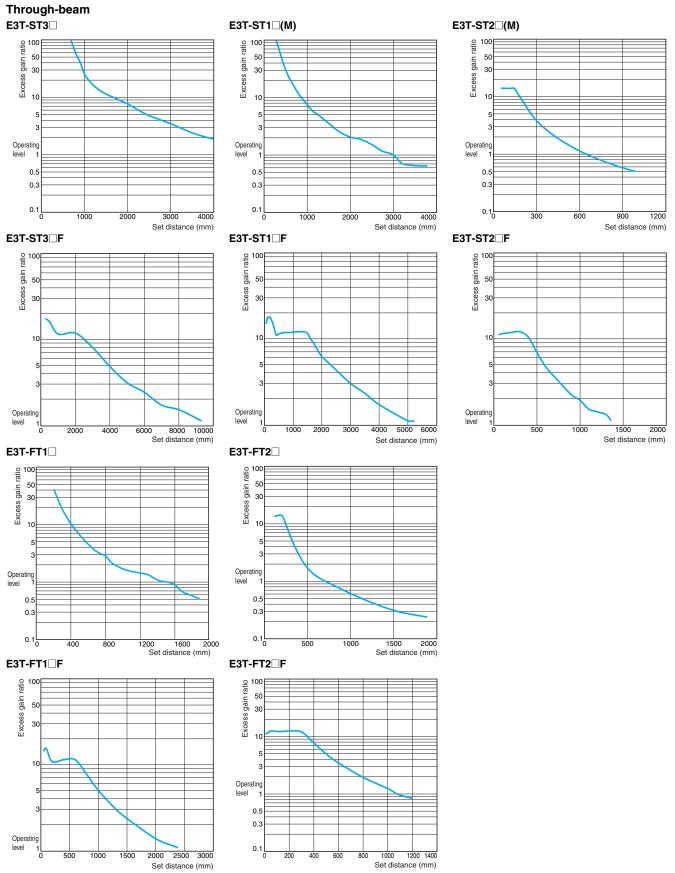
E3T-FL2□ (Top to Bottom)

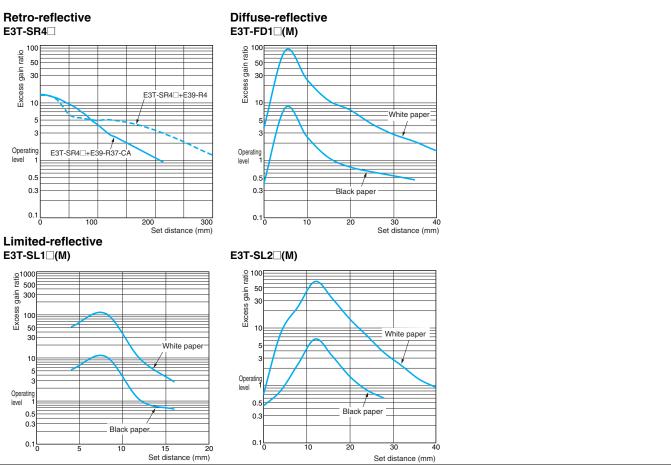


E3T-FL2□ (Right to Left)

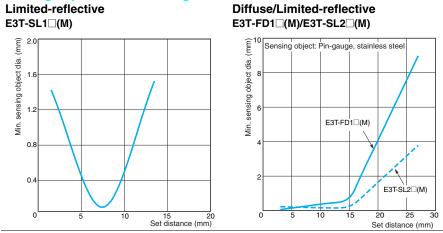


Excess Gain vs. Set Distance



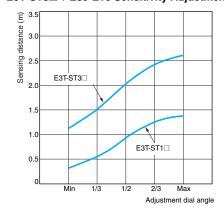


Sensing Object Size vs. Sensing Distance



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

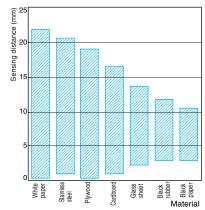
E3T-ST1 + E39-E10 Sensitivity Adjustment Unit E3T-ST3 + E39-E10 Sensitivity Adjustment Unit



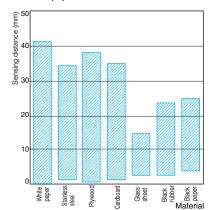
Sensing Distance vs. Material

Limited-reflective

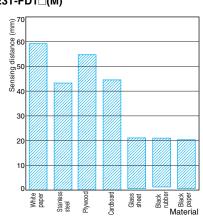
E3T-SL1□(M)



E3T-SL2□(M)

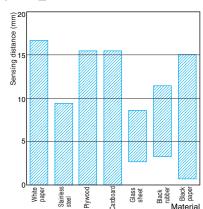


Diffuse-reflective E3T-FD1□(M)

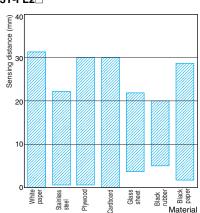


BGS-reflective

E3T-FL1□



E3T-FL2

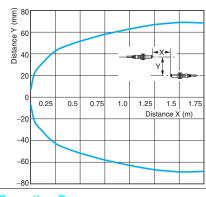


Small Cylindrical Sensors

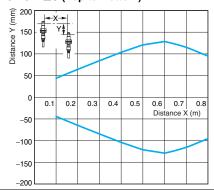
Parallel Operating Range

Through-beam

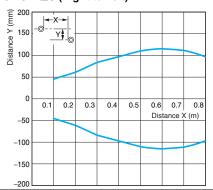
E3T-CT1□



E3T-CT2□S (Top to Bottom)



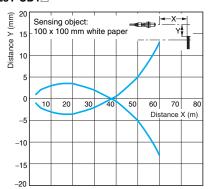
E3T-CT2□S (Right to Left)



Operating Range

Diffuse-reflective

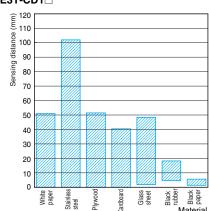
E3T-CD1□



Sensing Distance vs. Material

Diffuse-reflective

E3T-CD1□



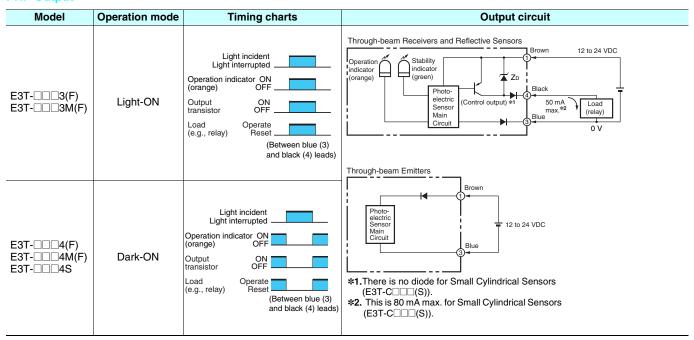
E3T

I/O Circuit Diagrams

NPN Output

Model	Operation mode	Timing charts	Output circuit
E3T1(F) E3T1M(F)	Light-ON	Light incident Light interrupted Operation indicator ON (orange) OFF Output transistor Load (e.g., relay) Operate Reset (Between brown (1) and black (4) leads)	Through-beam Receivers and Reflective Sensors Operation Indicator
E3T-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Dark-ON	Light incident Light interrupted Operation indicator ON (orange) Ottput transistor OFF Load (e.g., relay) Operate (e.g., relay) Reset (Between brown (1) and black (4) leads)	*1.There is no diode for Small Cylindrical Sensors (E3T-C□□(S)). *2. This is 80 mA max. for Small Cylindrical Sensors (E3T-C□□(S)).

PNP Output



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 is 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

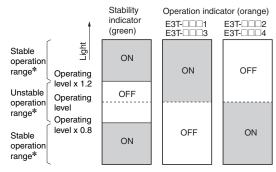
Attachment to Moving Parts

To mount the Photoelectric Sensor to a moving part, such as a robot hand, consider using a Sensor that uses a bending-resistant cable (robot cable).

Adjusting

Indicators

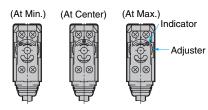
- The following graphs indicate the status of each operating level.
- Be sure to use the E3T within the stable operating range.



* If the E3T's 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.
- 2. 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·cm when turning the adjuster.

Others

Do not use the product under the following conditions.

- In the place exposed to the direct sunlight.
- In the place where humidity is high and condensation may occur.
- In the place where corrosive gas exists.
- In the place where vibration or shock is directly transmitted to the product.

Sensors

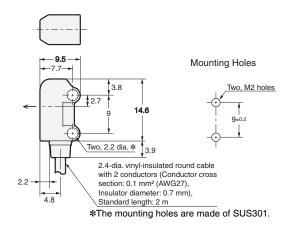
M2-mounting Sensors

Through-beam Side-view Sensors

E3T-ST1□(F) (Emitter) E3T-ST2□(F) (Emitter)



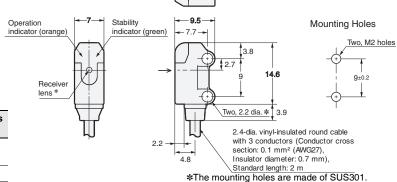
Emitter: E3T-ST (F)-L Receiver: E3T-ST (F)-D Emitter lens (1.3 dia.)



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

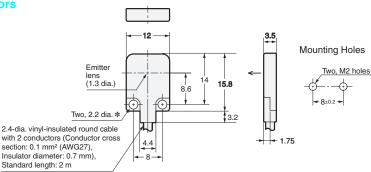


Through-beam Flat Sensors

E3T-FT1□(F) (Emitter) E3T-FT2□(F) (Emitter)

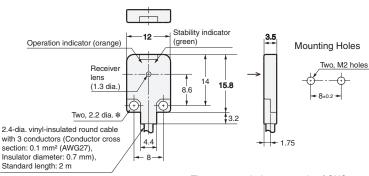


Emitter: E3T-FT (F)-L Receiver: E3T-FT (F)-D



*The mounting holes are made of SUS301.

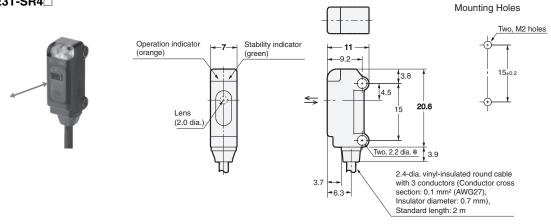




*The mounting holes are made of SUS301.

Retro-reflective Side-view Sensors

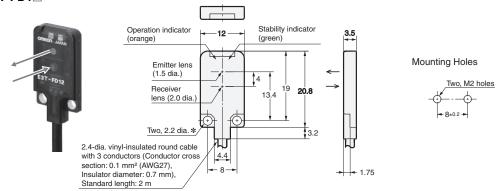
E3T-SR4□



*The mounting holes are made of SUS301.

Diffuse-reflective Flat Sensors



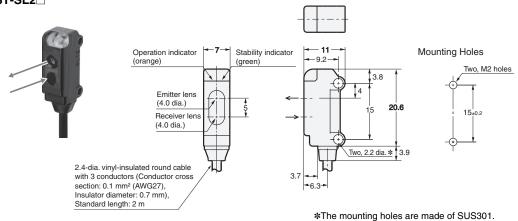


 $\label{eq:the_state} \mbox{\bf *The mounting holes are made of SUS301}.$

Limited-reflective Side-view Sensors

E3T-SL1□

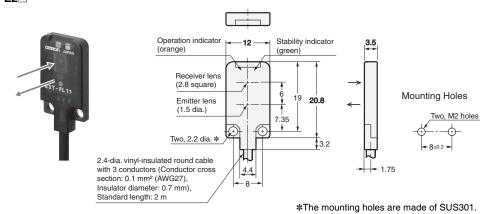




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BGS-reflective Flat Sensors

E3T-FL1 = E3T-FL2



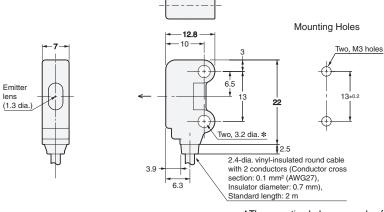
M3-mounting Sensors

Through-beam Side-view Sensors

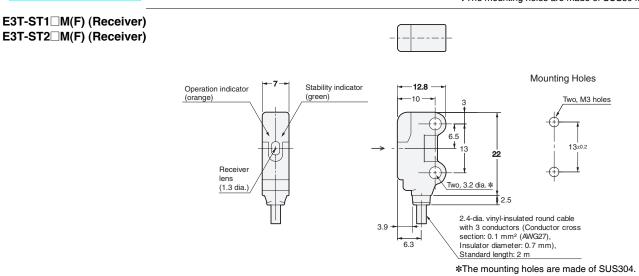
E3T-ST1□M(F) (Emitter) E3T-ST2□M(F) (Emitter)



Emitter: E3T-ST□□(F)M-L Receiver: E3T-ST□□(F)M-D



*The mounting holes are made of SUS304.



Diffuse-reflective Flat Sensors E3T-FD1□M Stability indicator Operation indicator (orange) -12.6 Mounting Holes Two, M3 holes Emitter lens 20.4 (1.5 dia.) 14.8 Receiver lens (2.0 dia. Two, 3.2 dia. * 2.4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.1 mm² (AWG27), Insulator diameter: 0.7 mm), *The mounting holes and plate are made of SUS304. Standard length: 2 m **Limited-reflective Side-view Sensors** E3T-SL1□M E3T-SL2□M Mounting Holes 12.8 Two, M3 holes Operation indicator Stability indicator (orange) -10 (green) 4.8 Emitter lens (4.0 dia.) 16±0.2 Receiver lens (4.0 dia.) Two, 3.2 dia. * 2.4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.1 mm² (AWG27), Insulator diameter: 0.7 mm), Standard length: 2 m *The mounting holes are made of SUS304. **Small Cylindrical Sensors** Toothed 10 dia. Two, hexagonal nuts (M5) washer E3T-CT1 (Emitter) Mounting Hole 4.4 2.5-dia. vinyl-insulated round cable (1.8)Optical with 2 conductors (Conductor cross section: 0.15 mm² (AWG25), M5×0.5 Insulator diameter: 0.8 mm), Standard length: 2 m 2.7-dia. vinyl-insulated round cable with 3 conductors (Conductor cross Emitter: E3T-CT1□-L Receiver: E3T-CT1□-D Toothed section: 0.15 mm² (AWG25), Insulator diameter: 0.85 mm), washer Two, hexagonal nuts (M5) 10 dia. Standard length: 2 m Optical E3T-CT1 (Receiver) Mounting Hole

(1)_

Operation indicator

(orange)

Stability indicator

(green)

5.6 dia.

4.4

2.5 9.7

M5×0.5

Through-beam Side-view Sensors Toothed Two, hexagonal nuts (M5) E3T-CT2□S (Emitter) washer 10 dia Mounting Hole 5.6 dia. 2.5-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.15 mm² (AWG25), Insulator diameter: 0.8 mm), M5×0.5 Standard length: 2 m 2.7-dia. vinyl-insulated round cable Toothed washer with 3 conductors (Conductor cross section: 0.15 mm² (AWG25), Insulator diameter: 0.85 mm), Two, hexagonal nuts (M5) Emitter: E3T-CT2 S-l Standard length: 2 m 10 dia. 27.2 Receiver: E3T-CT2 S-D Operation indicator (orange) 13.1 Mounting Hole 3.5 E3T-CT2□S (Receiver) Stability 5.6 dia indicator Optical axis (green) 9.7 M5×0.5 **Diffuse-reflective Top-view Sensors** Sensitivity adjuster E3T-CD1□ 19.9 Stability indicator 2.8 Mounting Hole (green) Operation indicator (orange) Toothed washer Two, hexagonal nuts (M6) 11 dia. M6×0.75 **JUN** 6.8 dia. 2.7-dia. vinyl-insulated round cable (1.2)6.5 with 3 conductors (Conductor cross section: 0.15 mm² (AWG25), 29.1 Insulator diameter: 0.85 mm). Standard length: 2 m **Accessories** Reflector (Provided with E3T-SR4□) 13.7 E39-R4 9.7 **→**|.4.7 Material, reflective surface: acrylic Two, 2.2 dia. Rear surface: ABS Reflector (Provided with E3T-SR4□-S) Reflector Mounting bracket E39-R37-CA -13.7 **-8.7**→ ||- (1.1) Reflective \bigcirc surface: acrylic 18.3 10.2 18.3 23 23 Reflector: t 0.5 (adhesive tape side) Mounting Bracket:

t 0.5

Two, R1.55

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

Two, 3.1 dia

Material: Mounting plate: stainless

Reflective surface: acrylic

steel (SUS301)

Accessories (Order Separately)

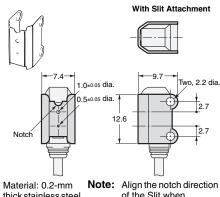
Tape Reflectors E39-RS1-CA Four, R1 Adhesive tape side Material: Acrylic E39-RS2-CA

Four, R1 Adhesive tape side Material: Acrylic

E39-RS3-CA 80 0.5 Four, R1 Adhesive tape side Material: Acrylic

Slit for E3T-ST□□(F) Through-beam

E39-S63

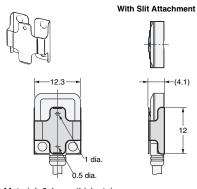


thick stainless steel (SUS301)

of the Slit when installing on the Emitter and Receiver.

Slit for E3T-FT□□(F) Through-beam

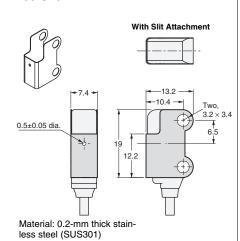
E39-S64



Material: 0.1-mm thick stainless steel (SUS301)

0.5-dia Slit for E3T-ST□□M(F) **Through-beam Sensors**

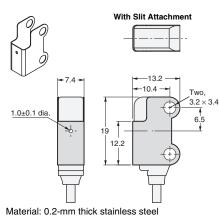
E39-S76A



1-dia Slit for E3T-ST□□M(F) **Through-beam Sensors**

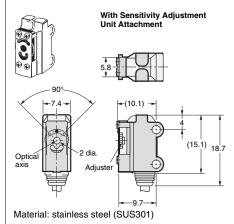
E39-S76B

(SUS301)



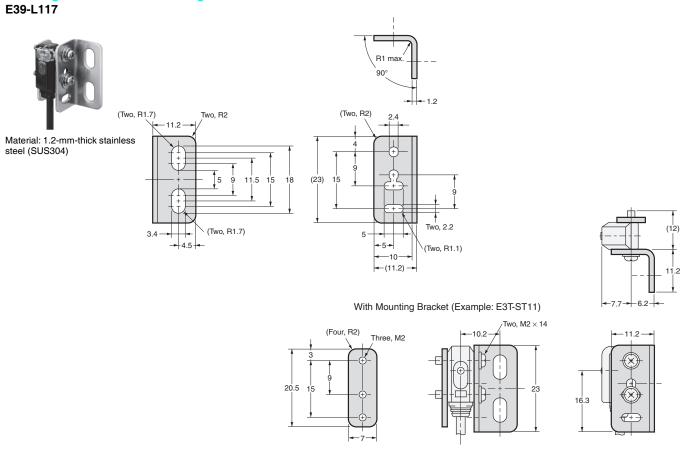
Sensitivity Adjustment Unit for E3T-ST1 /ST3 **Through-beam Sensors**

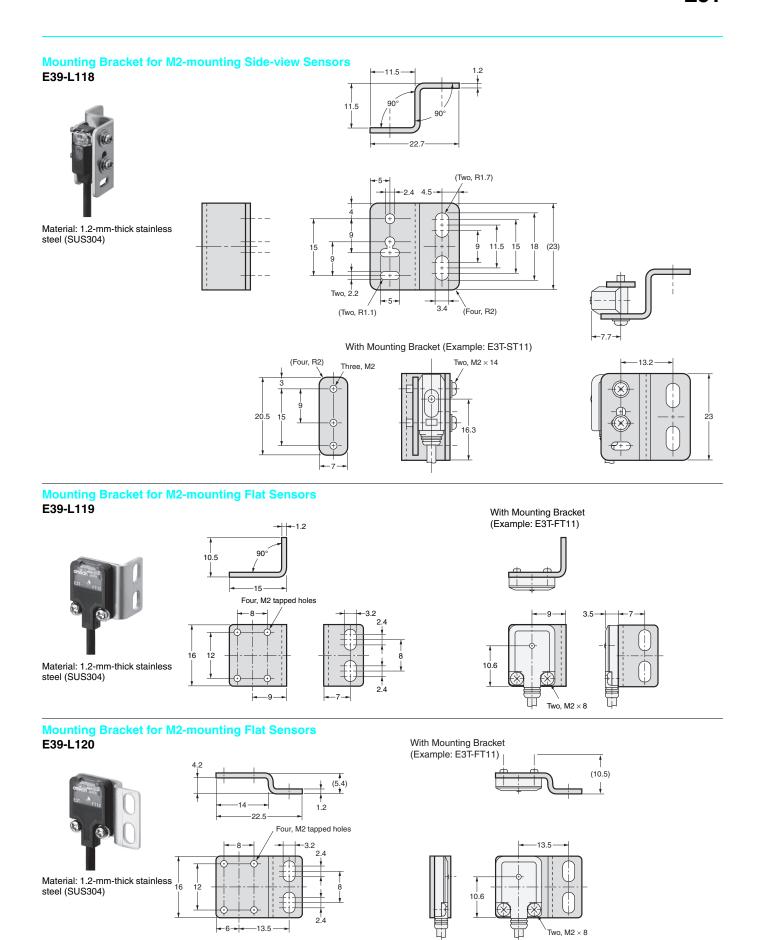
E39-E10



Mounting Bracket for M2-mounting Side-view Sensors E39-L116 (Two, R1.7) (17.8) 1 7.5 (Two, R2) (Two, R2) Material: 1.2-mm-thick (12) stainless steel (SUS304) (Two, R1.1) 31.2 9.5 (Two, R1.2) With Mounting Bracket (Example: E3T-ST11) R1.5 max. -10 (Four, R2) Three, M2 20.5

Mounting Bracket for M2-mounting Side-view Sensors



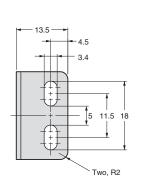


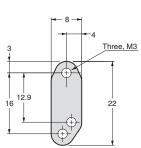
Mounting Bracket for M3-mounting Side-view Sensors

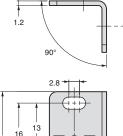
E39-L166

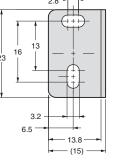


Material: 1.2-mm-thick stainless steel (SUS304)

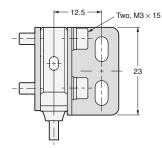


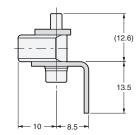


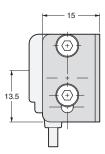




With Mounting Bracket (Example: E3T-ST11M)





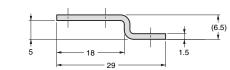


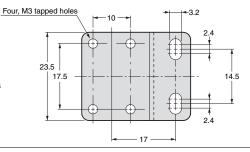
Mounting Bracket for M3-mounting Flat Sensors

E39-L167



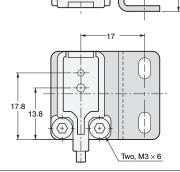
Material: 1.5-mm-thick stainless steel (SUS304)



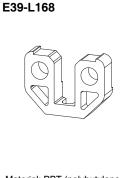


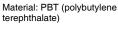


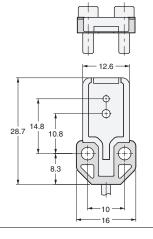
(10.5)

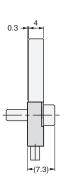


Back-mounting Spacer for M3-mounting Flat Sensors









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

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