Built-in Amplifier Photoelectric Sensor (Medium Size)

E3S-A



Be sure to read *Safety Precautions* on page 10.

Ordering Information

Built-in Amplifier Photoelectric Sensors

Red light Infrared light

Sensing method	Appearance	Connection	Sensing distance		Functions	Мо	del
Sensing method	Appearance	method	Sensing u	Stance	Functions	NPN output	PNP output
		Pre-wired				E3S-AT11 Emitter E3S-AT11-L Receiver E3S-AT11-D	E3S-AT31 Emitter E3S-AT31-L Receiver E3S-AT31-D
	Horizontal ⊲,,] → ,				Timer Turbo Self Diagnosis External Diagnosis	E3S-AT21 Emitter E3S-AT21-L Receiver E3S-AT21-D	E3S-AT41 Emitter E3S-AT41-L Receiver E3S-AT41-D
Through-beam		Connector (M12)		57 m		E3S-AT16 Emitter E3S-AT16-L Receiver E3S-AT16-D	E3S-AT36 Emitter E3S-AT36-L Receiver E3S-AT36-D
Sensors *1	Vertical	Pre-wired				E3S-AT61 Emitter E3S-AT61-L Receiver E3S-AT61-D	E3S-AT81 Emitter E3S-AT81-L Receiver E3S-AT81-D
		r ie-wiieu			Timer Turbo Self Diagnosis External Diagnosis	E3S-AT71 Emitter E3S-AT71-L Receiver E3S-AT71-D	E3S-AT91 Emitter E3S-AT91-L Receiver E3S-AT91-D
		Connector (M12)				E3S-AT66 Emitter E3S-AT66-L Receiver E3S-AT66-D	E3S-AT86 Emitter E3S-AT86-L Receiver E3S-AT86-D
						E3S-AR11	E3S-AR31
	Horizontal	Pre-wired			Timer Turbo Self Diagnosis External Diagnosis	E3S-AR21	E3S-AR41
Retro-reflective Sensors		Connector (M12)		2 m		E3S-AR16	E3S-AR36
			(*	100 mm)		E3S-AR61	E3S-AR81
	Vertical	Pre-wired		*2	Timer Turbo Self Diagnosis External Diagnosis	E3S-AR71	E3S-AR91
		Connector (M12)				E3S-AR66	E3S-AR86

*1. Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

Orders for individual Emitters and Receivers are accepted.

*2. Values in brackets are the minimum required distance between the Sensor and Reflector.

Sensing method	Appearance	Connection	Sancing	dictoroc	Functions	Мос	del
Sensing metriou A	Appearance	method	Sensing distance		Functions	NPN output	PNP output
						E3S-AD13 *3	E3S-AD33
] 100 mm (w	ide view)	Timer Self Diagnosis	E3S-AD23	E3S-AD43
						E3S-AD11	E3S-AD31
	Horizontal	Pre-wired	200 mm		Timer Turbo Self Diagnosis	E3S-AD21	E3S-AD41
	HUHZUHIAI					E3S-AD12	E3S-AD32
	₄1 ↔		700 mi	n	Timer Turbo Self Diagnosis	E3S-AD22	E3S-AD42
		Connector (M12)	100 mm (wide view) 200 mm			E3S-AD18	E3S-AD38
						E3S-AD16	E3S-AD36
Diffuse-reflective			700 mi	n		E3S-AD17	E3S-AD37
Sensors	Vertical			vide view)		E3S-AD63 *3	E3S-AD83
] 100 mm (wi		Timer Self Diagnosis	E3S-AD73	E3S-AD93
			200 mm			E3S-AD61	E3S-AD81
		Pre-wired			Timer Turbo Self Diagnosis	E3S-AD71	E3S-AD91
						E3S-AD62	E3S-AD82
			700 mm	n	Timer Self Diagnosis	E3S-AD72	E3S-AD92
] 100 mm (w	ide view)		E3S-AD68	E3S-AD88
		Connector	200 mm	,	F	E3S-AD66	E3S-AD86
		(M12)	700 mi	n	1	E3S-AD67	E3S-AD87

*3. The following models are available with 200-mm sensing distances: E3S-AD14 and E3S-AD64.

Accessories (Order Separately)

Insert-type Long Slit

Slit width	Sensing distance	Minimum sensing object (typical)	Model	Quantity	Remarks
0.5 mm × 11.1 mm	500 mm	0.2-mm dia.		1 of each for Emitter/	Slits can be used with the E3S-
1 mm × 11.1 mm	1.1 m	0.4-mm dia.	E39-S46	Beceiver (4 Slits total)	$AT \square \square$ Through-beam
$2 \text{ mm} \times 13.6 \text{ mm}$	2.5 m	0.8-mm dia.	E33-340	1 of each for Emitter/ Receiver (2 Slits total)	Sensor.→Page 10

Mutual Interference Prevention Filters

Sensing distance	Model	Quantity	Remarks
2.4 m	E39-E6	2 of each for Emitter/Receiver (4 Filters total)	Can be used with the E3S-AT□□ Through-beam Sensor. → Page 10

Reflectors/Other Accessories

Name	Sensing distance (typical)	Model	Quantity	Remarks
Reflectors	2 m (100 mm) * (rated value)	E39-R1	1	Provided with E3S-AR Retro-reflective Sensor.
Small Deflectors	1.3 m (100 mm) *	E39-R3	1	
Small Reflectors	600 mm (70 mm) *	E39-R4	1	
	450 mm (100 mm) *	E39-RS1	1	
Tape Reflectors	700 mm (100 mm) *	E39-RS2	1	Enables MSR function.
	900 mm (100 mm) *	E39-RS3	1	*
Optical Axis Confirmation Reflector		E39-R5	1	Used to check optical axis for the E3S-AT

Note: When using any Reflector other than the provided one, use a sensing distance of approximately 0.7 times the typical value as a guide. * Values in brackets are the minimum required distance between the Sensor and Reflector.

Mounting Brackets/Other

Appearance	Model	Quantity	Remarks
C C C C C C C C C C C C C C C C C C C	E39-L69	1	Provided with E3S-A Horizontal Sensors.
	E39-L70	1	Provided with E3S-A Vertical Sensors.
And a start	E39-L59	1	Provided with E3S-A Vertical Pre-wired Sensors.
50	E39-L81	1	Provided with E3S-A Vertical Connector Sensors.
	E39-L97	1	Protective Cover for Horizontal Sensors Note: When mounting Sensors with Connectors, the Sensor I/O Connector will come into contact with the Bracket. Mount the Sensor with care.
	E39-L98	1	Protective Cover for Vertical Sensors Note: When mounting Sensors with Connectors, the Sensor I/O Connector will be longer. Mount the Sensor with care.
	E39-L60	1	Close Mounting Plate: Provided with E3S-A Connector Sensors.

Note: If a Through-beam Model is used, order two Mounting Brackets, one for the Emitter and one for the Receiver.

Sensors I/O Connectors

Model Quantity		Remarks	
E39-G2	1	Provided with product.	

Sensors I/O Connectors

Cable	Appearance	Cable type		Model
	Straight	2 m		XS2F-D421-DC0-A
Standard		5 m	3-wire	XS2F-D421-GC0-A
Standard	L-shaped	2 m	3-wile	XS2F-D422-DC0-A
		5 m		XS2F-D422-GC0-A

Note: When using Through-beam models, order one connector for the Receiver and one for the Emitter.

Ratings and Specifications

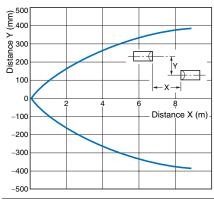
Sensing method		Through-beam Sensors	Retro-reflective Sensors (with MSR function)		Diffuse-reflective Senso	rs		
Item	Model	E3S-AT11, 16, 21, 31, 36, 41, 61, 66, 71, 81, 86, 91	E3S-AR11, 16, 21, 31, 36, 41, 61, 66, 71, 81, 86, 91	E3S-AD13, 18, 23, 33, 38, 43, 63, 68, 73, 83, 88, 93	E3S-AD11, 16, 21, 31, 36, 41, 61, 66, 71, 81, 86, 91	E3S-AD12, 17, 22, 32, 37, 42, 62, 67, 72, 82, 87, 92		
Sensing distance 7 m		7 m	2 m (100 mm) *1 (When using E39-R1)	100 mm (wide view) (white paper 100×100 mm)	10 to 200 mm (white paper 100 × 100 mm)	700 mm (white paper 200 × 200 mm)		
Standard sens	sing object	Opaque: 10-mm dia. min.	Opaque: 75-mm dia. min.					
Differential tra	avel	-	-	20% max. of sensing distance	10% max. of sensing distance	20% max. of sensing distance		
Directional an	gle	Both Emitter and Receiver: 3° to 15°	3 to 10°					
Light source ((wavelength)	Red LED (700 nm)		Infrared LED (880 nm)	Red LED (700 nm)	Infrared LED (880 nm)		
Power supply	voltage	10 to 30 VDC, including r	ipple (p-p) 10%					
Current consu	umption	Both Emitter and Receiver: 20 mA max. (plus approx. 15 mA with turbo function)	30 mA max. (plus approx. 15 mA with turbo function)	35 mA max.	30 mA max. (plus approx. 15 mA with turbo function)	35 mA max.		
Control output	ıt		ge: 30 VDC max., Load cu					
Self-diagnosti	ic output (Only ith self-diagnos-	(Only Sensors with self-d Load current: 50 mA max Open-collector output (N	PN or PNP depending on r iagnostic function) Load p c. (residual voltage: 1 V ma PN or PNP depending on r	ower supply voltage: 30 V ax.),				
External diagnostic input (Only on voltage external diagnostic) (only on voltage external diagnostic outputs) Input (leakage current: 0.1 mA max.) With Emitter OFF: +DC short-circuit or (leakage current: 0.1 mA max.) With Emitter OFF: +DC short-circuit or (leakage current: 0.1 mA max.)		ux.) max.) nort-circuit or −1.5 VDC max.)						
	Response time	0.5 ms max.						
Protection circuits pola		Power supply reverse polarity protection, Output short-circuit protection	e Power supply reverse polarity protection, Output short-circuit protection, Mutual interference prevention					
Response time	e	Operation or reset: 0.5 ms max.						
Sensitivity adj	justment	Two-turn endless adjuster with an indicator						
	n (Only on Sen- timer function)	0 to 100 ms OFF-delay variable adjuster						
sors with the t	n (Only on Sen- turbo function)	Yes (with turbo switch)						
Ambient illum er side)	ination (Receiv-	Incandescent lamp: 5,000 Sunlight: 10,000 lx max.						
Ambient temp	perature	Storage: -40°C to 70°C (C (with no icing or condens with no icing or condensat					
Ambient humi	•	Storage: 35% to 95% (with	ating: 35% to 85% (with no condensation) ge: 35% to 95% (with no condensation)					
Insulation resi			between current-carrying p					
Dielectric stre Vibration resis (destruction)	•			earrying parts and case each in X, Y, and Z directions				
Shock resistance Destruct		Destruction: 500m/s ² , 3 ti	mes each in X, Y, and Z d	irections				
(destruction)	tection	IEC IP67; NEMA: 4X (ind	IEMA: 4X (indoors only) *2					
, ,			th: 2 m) or M12 connector					
Degree of prot	ethod	Pre-wired cable: Pre-wired cable: Approx. 150 g Approx. 110 g Connector: Approx. 70 g Connector: Approx. 60 g						
Degree of prot Connection m		Approx. 150 g	Approx. 110 g					
Weight (packe		Approx. 150 g	Approx. 110 g					
Degree of prot Connection m Weight (packe	ed state)	Approx. 150 g Connector: Approx. 70 g	Approx. 110 g					
Degree of prof Connection m Weight (packe Material	ed state) Case	Approx. 150 g Connector: Approx. 70 g PBT Denatured polyallylate Stainless steel (SUS304)	Approx. 110 g Connector: Approx. 60 g	Connector: Approx. 50 g				

*1. Values in brackets are the minimum required distance between the Sensor and Reflector. *2. National Electrical Manufacturers Association

Engineering Data (Typical)

Parallel Sensing Range

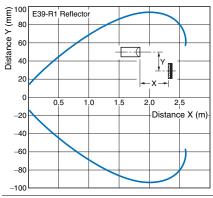
Through-beam Sensors E3S-AT



Parallel Sensing Range

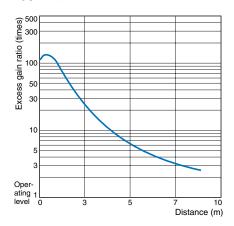
Retro-reflective Sensors

E3S-AR - + E39-R1 (with Reflector)

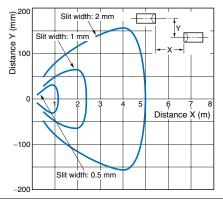


Excess Gain vs. Set Distance

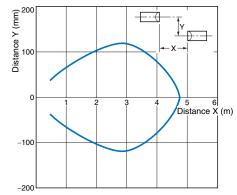
Through-beam Sensors E3S-AT



Through-beam Sensors E3S-AT + E39-S46 (Slit Sold Separately)



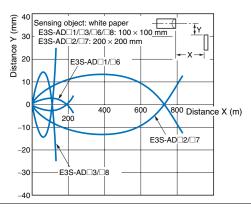
Through-beam Sensors E3S-AT + E39-E6 (Filter Sold Separately)



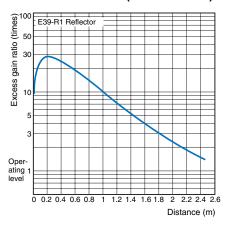
Sensing Range

Diffuse-reflective Sensors

E3S-AD 1/AD 2/AD 3/AD 6/AD 7/AD 8



Retro-reflective Sensors E3S-AR + E39-R1 (with Reflector)



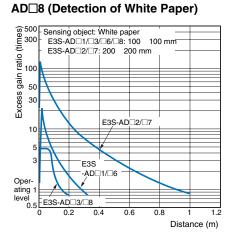
Diffuse-reflective Sensor

Diffuse-reflective Sensor

E3S-AD 1/AD 2/AD 3/AD 6/AD 7/ AD 8 (Detection of Black Paper)

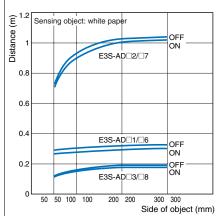
Sensing Object Size vs. Sensing Distance

E3S-AD 1/AD 2/AD 3/AD 6/AD 7/ AD 8



E3S-AD 1/AD 2/AD 3/AD 6/AD 7/

Sensing object: Black paper ratio (times) E3S-AD 1/3/6/8: 100 100 mm -E3S-AD 2/7: 200 200 mm 50 30 Excess gain 10 5 E3S-AD 2/ E3S 3 -AD 1/06 Operating level 0.5 0.3 E3S-AD 0.1 ō 200 400 600 800 Distance (mm)



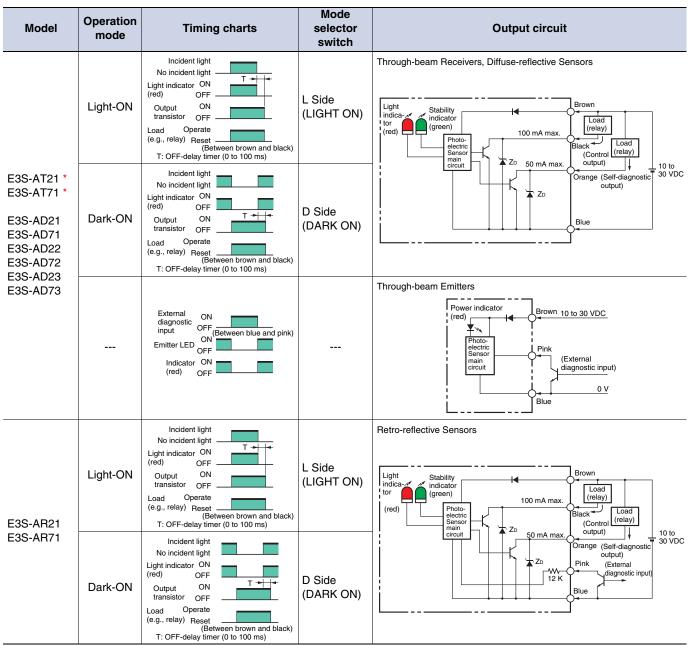
I/O Circuit Diagrams

NPN Output

Model	Operation mode	Timing charts	Mode selector switch	Output circuit
E3S-AT11 * E3S-AT16 * E3S-AT61 * E3S-AT66 * E3S-AR11 E3S-AR16	Light-ON	Incident light No incident light Light indicator ON (red) OFF Output ON transistor OFF Load Operate (e.g., relay) Reset (Between brown and black)	L Side (LIGHT ON)	Through-beam Receivers, Retro-reflective Sensors, Diffuse-reflective Sensors
E3S-AR61 E3S-AR66 E3S-AD11 E3S-AD16 E3S-AD61 E3S-AD66 E3S-AD12	Dark-ON	Incident light No incident light Light indicator ON (red) OFF Output ON transistor OFF Load Operate (e.g., relay) Reset (Between brown and black)	D Side (DARK ON)	Connector Pin Arrangement
E3S-AD17 E3S-AD62 E3S-AD67 E3S-AD13 E3S-AD18 E3S-AD63 E3S-AD68	Through-be	am Emitters	Brown	10 to Image: Connector Pin Arrangement 30 VDC Image: Connector Pin Arrangement 10 to Image: Conne 10 to

*Models numbers for Through-beam Sensors (E3S-AT) are for sets that include both the Emitter and Receiver.

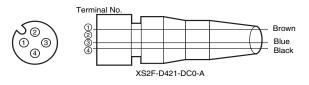
The model number of the Emitter is expressed by adding "-L^{*} to the set model number (example: E3S-AT11-L 2M), the model number of the Receiver, by adding "-D" (example: E3S-AT11-D 2M). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.



*Models numbers for Through-beam Sensors (E3S-AT□1) are for sets that include both the Emitter and Receiver.

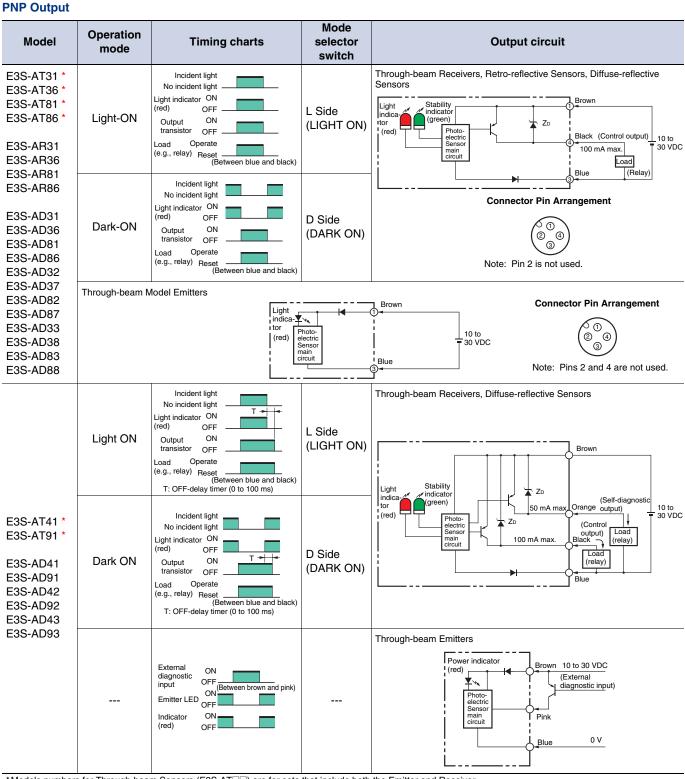
The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3S-AT21-L 2M), the model number of the Receiver, by adding "-D" (example: E3S-AT21-D 2M). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

Structure of Sensor I/O Connector



Classification	Wire color	Connection Pin No.	Application
For DC	Brown	1	+V
		2	
	Blue	3	0 V
	Black	4	Output

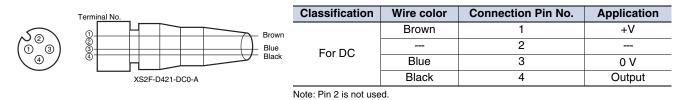
Note: Pin No. 2 is not used.



* Models numbers for Through-beam Sensors (E3S-AT) are for sets that include both the Emitter and Receiver. The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3S-AT31-L 2M), the model number of the Receiver, by adding "-D" (example: E3S-AT31-D 2M). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

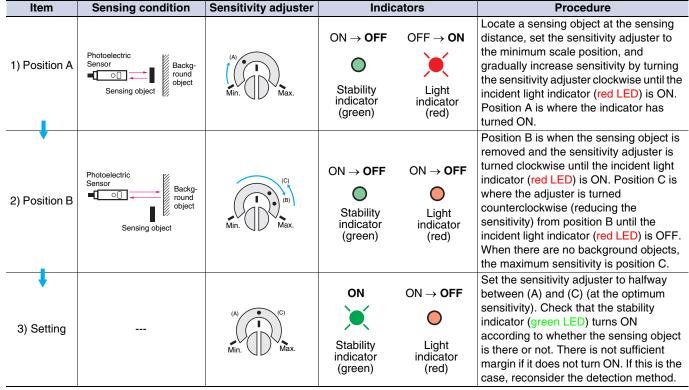
Model	Operation mode	Timing charts	Mode selector switch	Output circuit
E3S-AR41	Light-ON	Incident light No incident light Light indicator ON (red) OFF Output ON transistor OFF Load Operate (e.g., relay) Reset (Between blue and black) T: OFF-delay timer (0 to 100 ms)	L Side (LIGHT ON)	Retro-reflective Sensors
E3S-AR91	Dark-ON	Incident light No incident light Light indicator ON (red) OFF Output ON transistor OFF (e.g., relay) Reset (Between brown and black) T: OFF-delay timer (0 to 100 ms)	D Side (DARK ON)	(red) Photo- Sensor main circuit 100 mA max. Black (relay) Blue

Structure of Sensor I/O Connector



Adjustment Methods

Sensitivity Adjustment for Diffuse-reflective Sensors Set to Light ON



Unlike conventional Photoelectric Sensors, the variation in the sensitivity of E3S-A Photoelectric Sensors is minimal. This means the sensitivity can be adjusted on only a single Photoelectric Sensor, and then <u>the adjusters on the other Photoelectric Sensors</u> can be set to the same scale position. There is no need to adjust the sensitivity of each Photoelectric Sensor individually.

🔥 WARNING

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



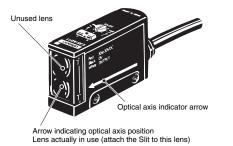
Precautions for Correct Use

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

Mounting

Position of Optical Axis of Through-beam Model

Unlike conventional through-beam sensors, the E3S-A Through-beam Photoelectric Sensor incorporates 2 lenses. The lens actually in use is the one marked with an arrow indicating the position of the optical axis. When using a Slit, attach it to the lens marked with the arrow.

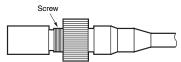


Position of Arrow Indicating Optical Axis

Position of lens in use
Тор
тор
Bottom

Tightening the Connector

Manually tighten the connector until the threads have completely disappeared. If tightening is insufficient, the degree of protection may not be maintained, or the connector may become loose when it is subjected to vibration. <u>Using</u> <u>pliers to tighten the connector may damage it.</u>

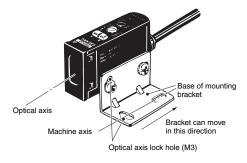


Use the E39-L60 Close Mounting Plate (provided) if the Sensor is mounted using mounting brackets or if it is mounted directly. (Refer to *Dimensions*.)

Mounting Bracket (Provided)

The direction of the optical axis coincides with the machine axis of the E3S-A when the mounting screw is inserted into the lock hole of the Mounting Bracket. If the mounting surface and the screw hole are correctly aligned toward the sensing object (or toward the Retroreflector for a Through-beam Sensor), the mechanical axis and optical axis will be aligned when the screw is inserted into the hole. Incident light will be detected, and time-consuming adjustment will not be necessary. (If, however, the mounting surface is not flat, adjustment of the optical axis may still be required.) Adjust the position of the Sensor so that incident light points at the center. Make sure that the incident light is at a fixed position.

The maximum tightening torque of the screw is 0.53 N.m max.

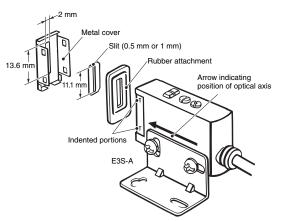


Adjustments

E39-S46 Through-beam Slits

(Accessory, order separately)

Use the rubber attachment with the metal cover if a slit width of 2 mm is required. (A Slit is not required in this case.) Insert the 0.5- or 1-mm Slit between the metal cover and rubber attachment if a slit width of 0.5 or 1 mm is desired. These Slits fit into the rubber attachment.



Apply the Slit to the lens of the Photoelectric Sensor marked with an arrow indicating the position of the optical axis (apply it to the bottom lens of Horizontal Sensors and the top lens of Vertical Sensors).

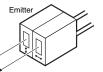
E39-E6 Polarized Mutual Interference Prevention Filters for Through-beam Sensors

(Accessory, order separately)

Receiver

A set of 4 Filters are sold together for two Through-beam Sensors (for 2 each for Emitters and Receivers). Order one for every two sets of Photoelectric Sensors.

For mounting, refer to the figure of the Through-beam Slits.



Up to two units can be attached

= 0

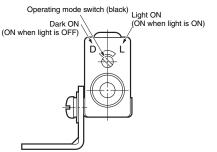
Note: The arrows on the Filters can be attached in either direction when two Sensors are mounted next to each other. The Filter attached to an Emitter and to the corresponding Receiver must be the same in direction of polarization or the Sensor will not function.

The arrow printed on the cover indicates the direction of polarization. By attaching the Filters opposite to each other in polarization to the Emitters and the Receivers in rows, mutual interference can be prevented (in any case, the Filter attached to an Emitter and to the corresponding Receiver must be the same in direction of polarization or the Photoelectric Sensor will not function).

Operating Mode Selection

As shown in the following illustration, the E3S-A has an operating mode selector on the panel where the Receiver connector is located.

With this operating mode selector, the E3S-A is in either Dark-ON or Light-ON mode.



The default operating mode is shown in the following table.

Sensing method	Default switch setting
Through-beam Sensors Retro-reflective Sensors	Dark-ON
Diffuse-reflective Sensors	Light-ON

Timer and Turbo Switch

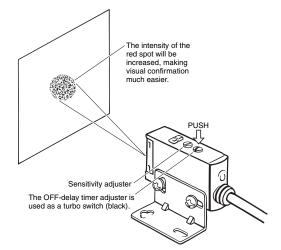
The Emitter of the Through-beam Sensor with the selfdiagnostic feature incorporates a turbo switch. When this switch is ON, the intensity of the red LED light source can be increased to make a brighter spot.

Turbo Function (Turbo Switch)

The turbo function is effective with the turbo switch pressed, and the function is reset automatically when released. With the turbo function switched ON, the light spot is visible even at a distance of 200 mm, making it easy to check the sensing position and the angle of the optical axis.

Precautions

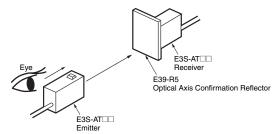
- (1)Do not keep the turbo switch pressed for longer than 3 minutes. (It will not break even if it is pressed for an extended period.)
- (2)Pressing the switch may change the timer delay settings. Set the timer after using the turbo function to check the optical axis.
- (3)To press the switch, use a force of 9.8 N max.



Using the E39-R5 Optical Axis Reflector for Throughbeam Sensors

(Accessory, order Separately)

Use this attachment when the set distance is long and adjustment is mechanically difficult with a sensing object.



Attach the Reflector to the Receiver.

Look at the Reflector from right behind the Emitter. The Reflector should be bright with red light when the optical beam strikes the Reflector. If the Emitter has a turbo function, the Reflector looks brighter with the function switched ON.

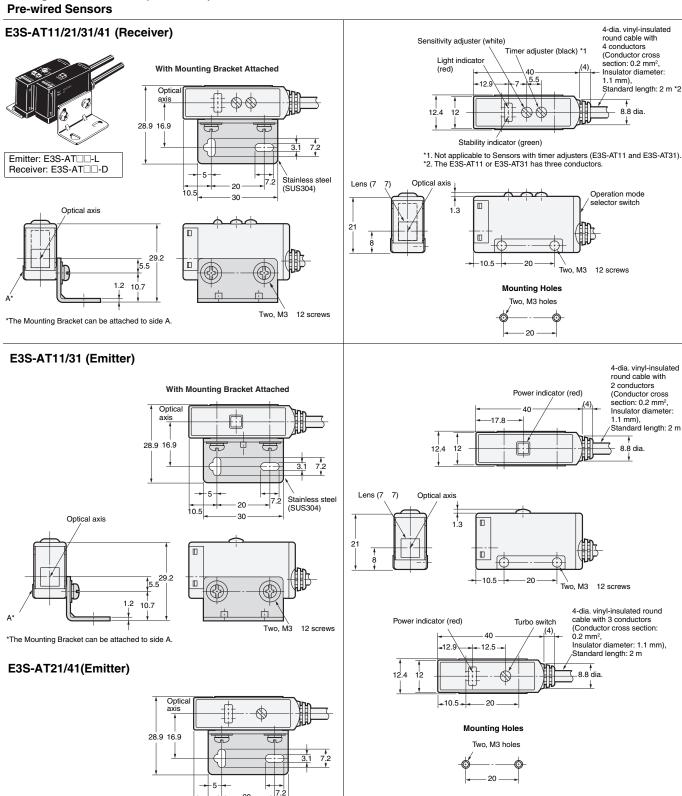
When the Reflector is removed, the light beam strikes the Receiver.

Dimensions

(Unit: mm) Unless otherwise specified, the tolerance class IT16 is used for dimensions in this data sheet.

E3S-A Built-in Amplifier Photoelectric Sensor

Through-beam Sensors (Horizontal)



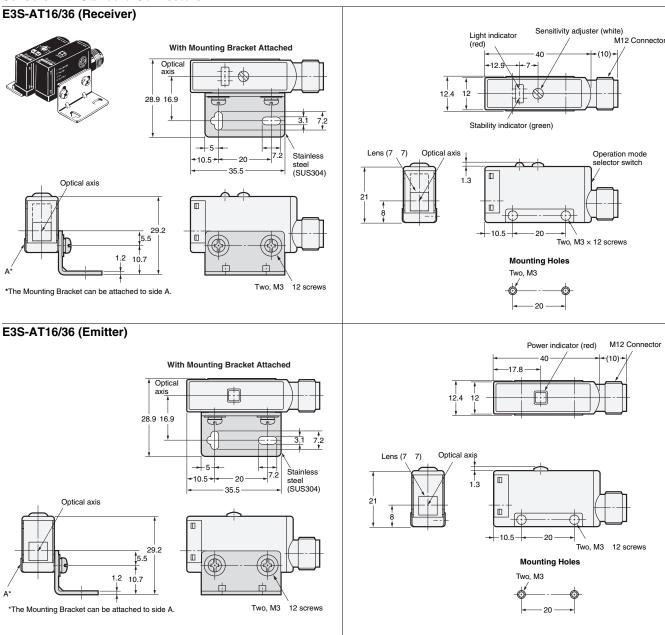
Note: Models numbers for Through-beam Sensors (E3S-AT⊡1) are for sets that include both the Emitter and Receiver.

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Note: Models numbers for Through-beam Sensors (E3S-ATD1) are for sets that include both the Emitter and Receiver. The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3S-AT11-L 2M), the model number of the Receiver, by adding "-D" (example: E3S-AT11-D 2M). Refer to Ordering Information to confirm model numbers for Emitter and Receivers.

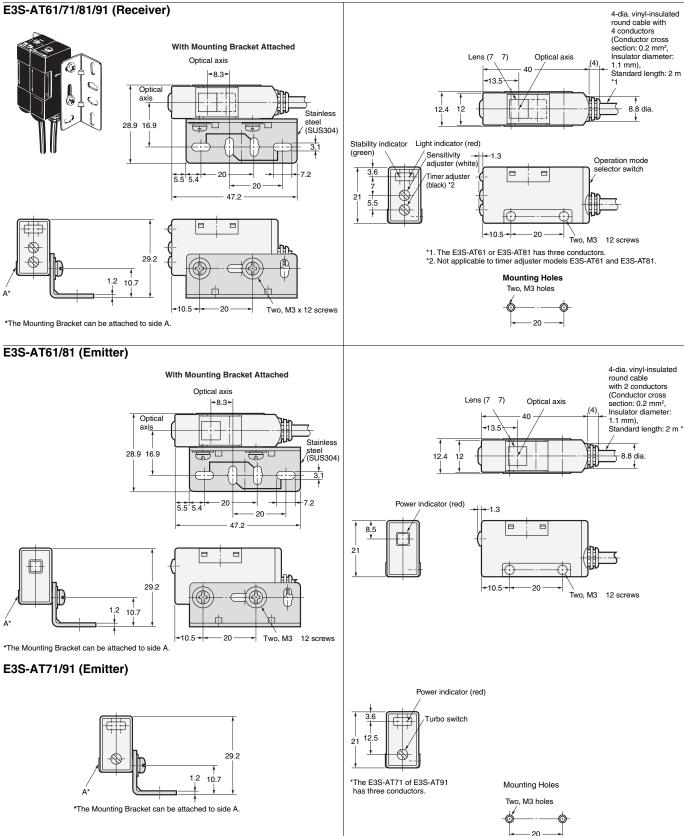
Sensors with Standard Connectors



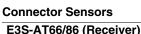
Note: Models numbers for Through-beam Sensors (E3S-AT 6) are for sets that include both the Emitter and Receiver. The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3S-AT16-L 2M), the model number of the Receiver, by adding "-D"

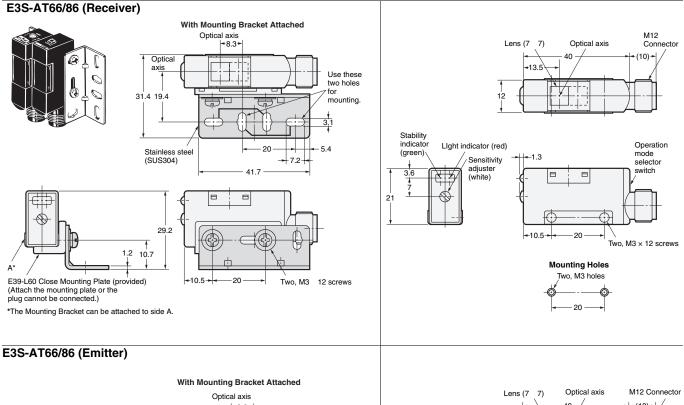
(example: E3S-AT16-D 2M). Refer to Ordering Information to confirm model numbers for Emitter and Receivers.

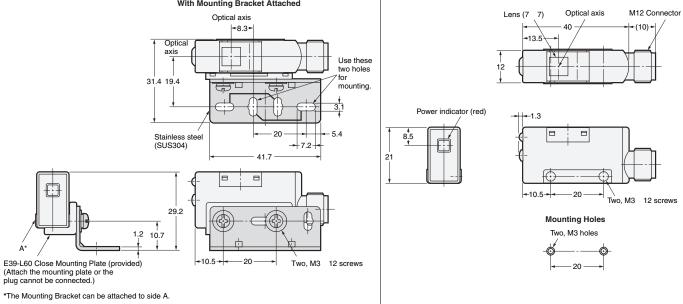
Through-beam Sensors (Vertical) Pre-wired Sensors



Note: Models numbers for Through-beam Sensors (E3S-ATD1) are for sets that include both the Emitter and Receiver. The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3S-AT61-L 2M), the model number of the Receiver, by adding "-D" (example: E3S-AT61-D 2M). Refer to Ordering Information to confirm model numbers for Emitter and Receivers.



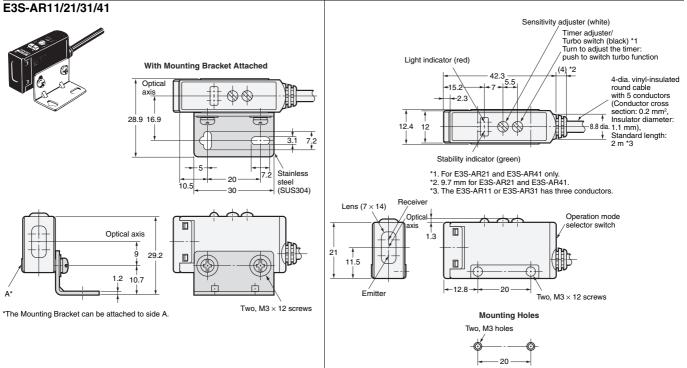




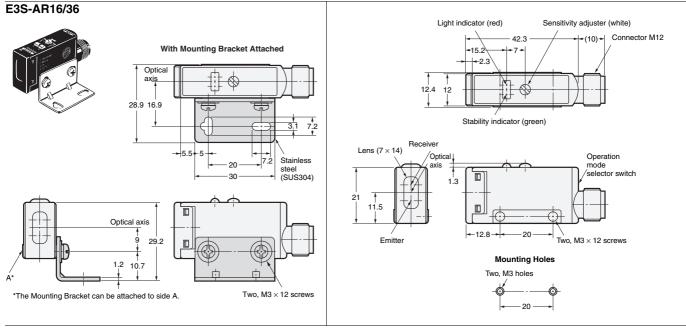
Note: Models numbers for Through-beam Sensors (E3S-AT 6) are for sets that include both the Emitter and Receiver.

The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3S-AT66-L 2M), the model number of the Receiver, by adding "-D" (example: E3S-AT66-D 2M). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

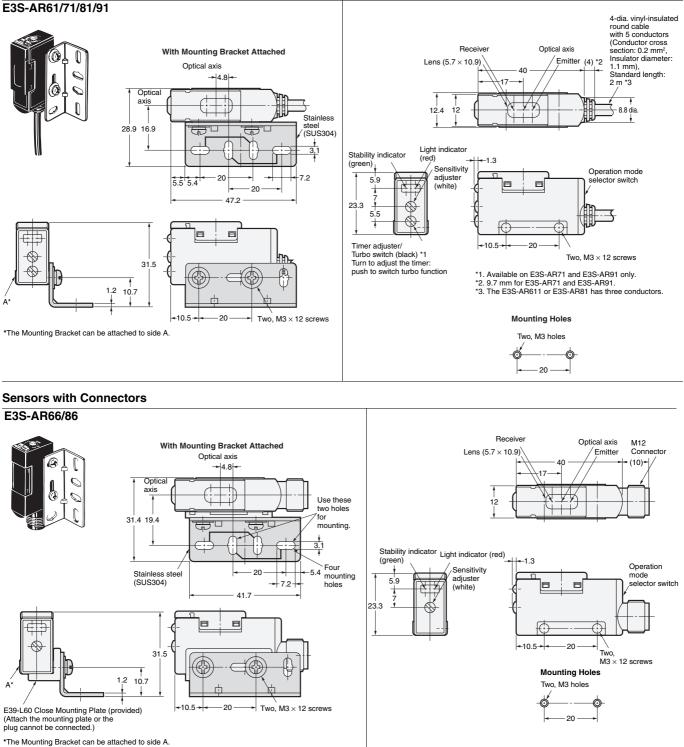
Retro-reflective Sensors (Horizontal) Pre-wired Sensors



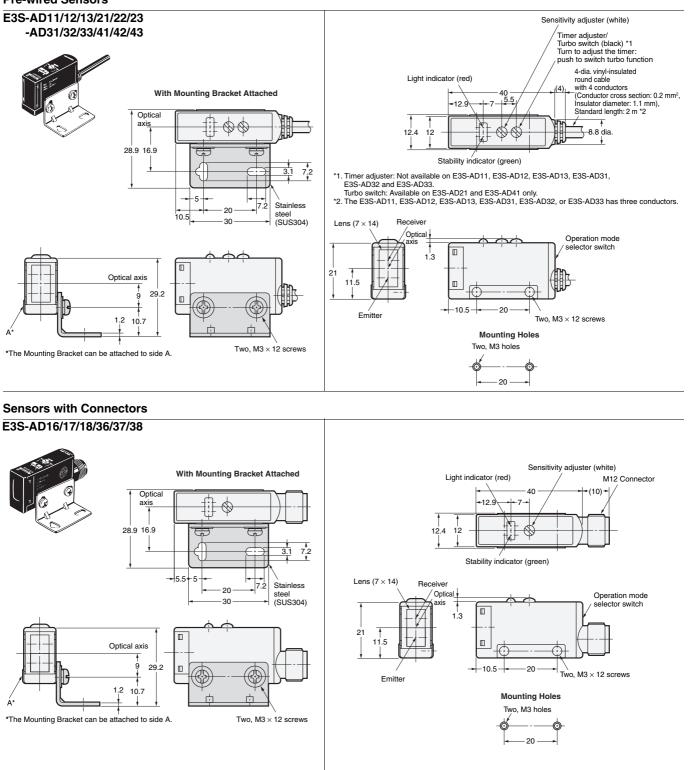
Sensors with Connectors



Retro-reflective Sensors (Vertical) Pre-wired Sensors



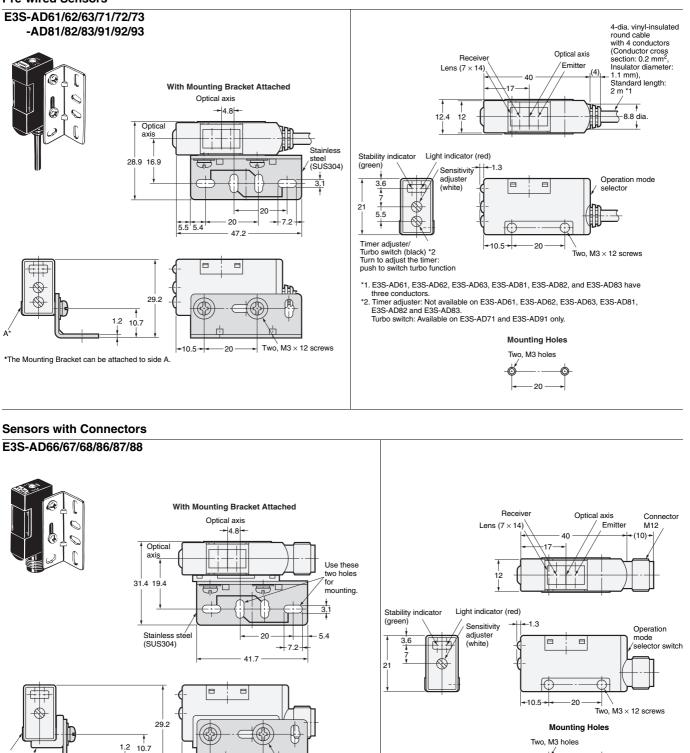
Diffuse-reflective Sensors (Horizontal) Pre-wired Sensors



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Diffuse-reflective Sensors (Vertical)

Pre-wired Sensors



E39-L60 Close Mounting Plate (provided) (Attach the mounting plate or the plug cannot be connected.) *The Mounting Bracket can be attached to side A. г÷.

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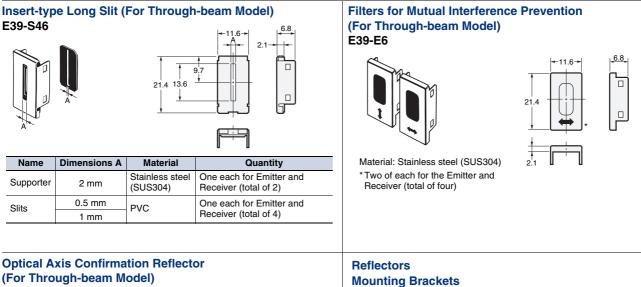
Two, $M3 \times 12$ screws

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A

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Accessories (Order Separately)



E39-R5 Bracket to be attached to the Emitter panel of E3S-A Material: Reflector: Acryl Back: ABS

In the interest of product improvement, specifications are subject to change without notice.

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2010.9

In the interest of product improvement, specifications are subject to change without notice.

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 E3S-AR31

 E3S-AR36
 E3S-AR41
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 E3S-AR71
 E3S-AR81 5M
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 E3S-AT11-D
 E3S-AT11-D

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 E3S-AT11-L
 E3S-AT11-L
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 E3S-AT16-L
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 AT21
 E3S-AT21-D2M
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 E3S-AT36

 AT36-D
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