

Distance-settable Photoelectric Sensor TOF Laser Sensor

E3AS-F Series

Optimal sensing distance (50 to 1,500 mm) for use on conveyor lines

- Wide sensing distance of 50 to 1,500 mm*, enabling use on any conveyor line width
- Time of flight (TOF) type sensors for use with any type of conveyed object
- · Compact body can be mounted anywhere
- (Metal body (SUS316L), Plastic body type (PBT/PC))
- Teaching method allows anyone to set optimal threshold values
- Manufactured using Omron's proprietary laser sealing method (IP67/IP69K/IP67G)
- Antifouling coatings reduce the cleaning frequency on the lens.
- IO-Link reduces time required for startups and changeovers
- * The sensing distance of the E3AS-F1500 series.



Refer to Safety Precautions on page 9.







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

Ordering Information

Sensors [Refer to Dimensions on page 11.] SUS 316L Body

Infrared light

0	0		Model				
Connection method	Sensing distance (white paper)	Output	NPN output	PNP output	PNP output		
metriou	(Winte paper)	IO-Link baud rate		COM2 (38.4 kbps)	COM3 (230.4 kbps)		
Pre-wired (2 m) ¹	50 mm	1,500 mm	E3AS-F1500IMN 2M	E3AS-F1500IMD 2M	E3AS-F1500IMT 2M		
M8 Connector			E3AS-F1500IMN M3	E3AS-F1500IMD M3	E3AS-F1500IMT M3		
M8 Pre-wired Connector		\Longrightarrow	E3AS-F1500IMN-M3J 0.3M	E3AS-F1500IMD-M3J 0.3M	E3AS-F1500IMT-M3J 0.3M		
M12 Pre-wired Connector ²			E3AS-F1500IMN-M1TJ 0.3M	E3AS-F1500IMD-M1TJ 0.3M	E3AS-F1500IMT-M1TJ 0.3M		
Pre-wired (2 m) ¹	50 mm	1,000 mm	E3AS-F1000IMN 2M	E3AS-F1000IMD 2M	E3AS-F1000IMT 2M		
M8 Connector			E3AS-F1000IMN M3	E3AS-F1000IMD M3	E3AS-F1000IMT M3		
M8 Pre-wired Connector			E3AS-F1000IMN-M3J 0.3M	E3AS-F1000IMD-M3J 0.3M	E3AS-F1000IMT-M3J 0.3M		
M12 Pre-wired Connector ²			E3AS-F1000IMN-M1TJ 0.3M	E3AS-F1000IMD-M1TJ 0.3M	E3AS-F1000IMT-M1TJ 0.3M		

PBT Body

0	Camaina diatana		Model			
Connection method	Sensing distance (white paper)	Output	NPN output	PNP output	PNP output	
mourou	(Willio paper)	IO-Link baud rate		COM2 (38.4 kbps)	COM3 (230.4 kbps)	
Pre-wired (2 m) ¹	50 mm	1,500 mm	E3AS-F1500IPN 2M	E3AS-F1500IPD 2M	E3AS-F1500IPT 2M	
M8 Connector			E3AS-F1500IPN M3	E3AS-F1500IPD M3	E3AS-F1500IPT M3	
M8 Pre-wired Connector		\Longrightarrow	E3AS-F1500IPN-M3J 0.3M	E3AS-F1500IPD-M3J 0.3M	E3AS-F1500IPT-M3J 0.3M	
M12 Pre-wired Connector ²	<i>></i>		E3AS-F1500IPN-M1TJ 0.3M	E3AS-F1500IPD-M1TJ 0.3M	E3AS-F1500IPT-M1TJ 0.3M	
Pre-wired (2 m) ¹	50 mm	1,000 mm	E3AS-F1000IPN 2M	E3AS-F1000IPD 2M	E3AS-F1000IPT 2M	
M8 Connector			E3AS-F1000IPN M3	E3AS-F1000IPD M3	E3AS-F1000IPT M3	
M8 Pre-wired Connector		\Longrightarrow	E3AS-F1000IPN-M3J 0.3M	E3AS-F1000IPD-M3J 0.3M	E3AS-F1000IPT-M3J 0.3M	
M12 Pre-wired Connector ²			E3AS-F1000IPN-M1TJ 0.3M	E3AS-F1000IPD-M1TJ 0.3M	E3AS-F1000IPT-M1TJ 0.3M	

^{1.} Models with 5-m cable length are also available with "5M" suffix. (Example: E3AS-F1500IMN 5M/E3AS-F1500IPN 5M) 2. The Pre-wired Connector (M12) is Smartclick Connector.

Accessories (Sold Separately)

Sensor I/O Connectors (Sockets on One Cable End)

(Models for Connectors / Pre-wired Connectors)

A Sensor I/O Connector is not provided with the Sensor. Order separately.

Round Water-resistant Connectors XS3F-M8 series

Appearance	Cable specification	Cable diameter (mm)	Cable connection direction	Cable length (m)	Sensor I/O Connector model number
M8 Connector Straight type	PVC cable		Straight	2	XS3F-M8PVC4S2M
		5 dia.	5	XS3F-M8PVC4S5M	
Right-angle type		o dia:	Right-angle	2 XS:	XS3F-M8PVC4A2M
			Tright-angle	5	XS3F-M8PVC4A5M

Note: 1. The XS3W (Socket and Plug on Cable Ends) is also available. Refer to XS3W-M8/XS3F-M8 Series Datasheet (Cat. No. G140).

- 2. The connectors will not rotate after they are connected.
- 3. The cable is fixed at an angle of 180° from the sensor emitter/receiver surface.

Round Water-resistant Connectors XS5 series

Appearance	Cable specification	Cable diameter (mm)	Cable connection direction	Cable length (m)	Sensor I/O Connector model number
M12 Smartclick Connector			2	XS5F-D421-D80-F	
Straight type			Straight		
O E W	PVC robot cable	6 dia.	Ü	5	XS5F-D421-G80-F
Right-angle type			Right-angle	2	XS5F-D422-D80-F
			right-angle	5	XS5F-D422-G80-F

Note: 1. The XS5W (Socket and Plug on Cable Ends) is also available. Refer to XS5 on your Omron website for details.
2. The connectors will not rotate after they are connected.
3. The cable is fixed at an angle of 180° from the sensor emitter/receiver surface.

Mounting Brackets [Refer to *Dimensions* on page 12.]
A Mounting Bracket is not enclosed with the Sensor. Order as needed.

		Model	Applicable Sensor E3AS series			
Ap	ppearance	(material)	Pre-wired	M8 Pre-wired Connector	M12 Pre-wired Smartclick Connector	M8 Connector
L-shaped Mounting Bracket		E39-L201 (SUS304)	Yes	Yes	Yes	
Horizontal Protective Cover Bracket		E39-L202 (SUS304)	Yes	Yes	Yes	
Rear Mounting Bracket		E39-L203 (SUS304)	Yes	Yes	Yes	Yes ²
Robust Mounting Bracket		E39-L204 (SUS304)	Yes	Yes	Yes	
L-shaped Mounting Bracket		E39-L211 (SUS304)	1	1	1	Yes ³
Horizontal Protective Cover Bracket		E39-L212 (SUS304)	 1	1	1	Yes ³
Robust Mounting Bracket		E39-L214 (SUS304)	1	1	1	Yes ³

^{1.} Can be used for Pre-wired models, M8 Pre-wired Connector models, and M12 Pre-wired Smartclick Connector models. However, confirm the bracket shape in advance.

^{2.} Confirm the installation environment and bracket shape of the Sensor I/O Connector to be connected.

^{3.} Use an L-shaped Sensor I/O Connector. Straight types cannot be installed.

Ratings and Specifications

	Sensing metho	TOF (Tin	ne of flight)				
Туре		Metal case (□: M), Plastic case (□: P)					
Mod	del NPN outpu	t E3AS-F1500I□N	E3AS-F1000I□N				
	PNP output/ COM	2 E3AS-F1500I□D	E3AS-F1000I□D				
tem	PNP output/ COM	3 E3AS-F1500I□T	E3AS-F1000I□T				
Sensing distance	e	50 mm to the set distance (White paper or black paper 200 × 200 mm)	50 mm to the set distance (White paper or black pape 200 × 200 mm)				
Setting range		100 to 1,500 mm (White paper 200 × 200 mm)					
Spot diameter (re	eference value)	95 mm dia. (at distance of 1,000 mm)	95 mm dia. (at distance of 1,000 mm)				
Differential trave	I	15% max. of set distance (Set distance 200 mm min.)	,				
Reflectivity charable black/white erro		10% max. of set distance (Set distance 200 mm min.)					
_ight source (wa	velength)	Infrared laser (940 nm) Class1 (IEC/EN60825-1:2014)					
Power supply vo	ltage	10 to 30 VDC (including 10% ripple (p-p)), Class2					
Current consum	ption	30 mA max.					
	Control output	Load power supply voltage: 30 VDC max., Class2, Load (Residual voltage: Load current of less than 10 mA: 1 V r Open-collector output (NPN/PNP output depending on m	max. Load current of 10 to 100 mA: 2 V max.)				
Input/output	NPN	OUTPUT 1: NO (Normally open), OUTPUT 2: NC (Normally open)	ally closed)				
	PNP/COM2 PNP/COM3	OUTPUT 1: NO (Normally open)/COM□, OUTPUT 2: NO	C (Normally closed)				
Protection circui	its	Power supply reverse polarity protection, Output short-cir	rcuit protection, and Output reverse polarity protection				
Response time		Operate or reset: 150 ms max.	Operate or reset: 90 ms max.				
Distance setting		Teaching method/IO-Link communications	'				
Ambient illumina Receiver side)	ation	Incandescent lamp: 3,000 lx max., Sunlight: 10,000 lx max.					
Ambient tempera	ature range	Operating: -20 to 55°C, Storage: -40 to 70°C (with no icir	ng or condensation)				
Ambient humidit		Operating: 35% to 85%, Storage: 35% to 95% (with no co	<u> </u>				
nsulation resista	<u> </u>	20 MΩ min. at 500 VDC	,				
Dielectric streng	th	1,000 VAC, 50/60 Hz for 1 min					
/ibration resista		10 to 55 Hz with a 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions					
Shock resistance		500 m/s ² for 3 times each in X, Y, and Z directions					
Degree of protec	tion	IP67 (IEC60529) and IP67G ¹ (JIS C 0920 Annex 1), IP69	OK (ISO20653)				
ndicators		Operation indicator (orange), stability/communication ind	icator (green ²)				
Connection meth	nod	Pre-wired (standard cable length: 2 m), M8 Connector, M8 Pre-wired Connector (standard cable length: 0.3m), M12 Pre-wired Smartclick Connector (standard cable length: 0.3m)					
	Pre-wired (2 m)	Metal case type: Approx. 135 g/approx. 90 g Plastic case type: Approx. 115 g/approx. 70 g					
Weight	M8 Connector	Metal case type: Approx. 75 g/approx. 30 g Plastic case type: Approx. 60 g/approx. 15 g					
(packed state/ Sensor only)	M8 Pre-wired Connecto (0.3m)	Metal case type: Approx. 85 g/approx. 40 g Plastic case type: Approx. 70 g/approx. 25 g					
	M12 Pre-wired Smartclick Connector (0.3m)	Metal case type: Approx. 95 g/approx. 50 g Plastic case type: Approx. 75 g/approx. 30 g					
	Case	Metal case type: Main unit/mounting part/connector part Plastic case type: Main unit Polybutylene terephthalate (I Mounting part/connector part Nickel-pl	PBT) /polycarbonate (PC),				
Materials	Lens	Methacrylate resin (PMMA)					
	Display	Metal case type: Polyamide 11 (PA11) Plastic case type: Polyethersulfone (PES)					
Main IO-Link functions		Operation mode switching between NO and NC, execution of teaching (2-point teaching, Background teaching), setup of the threshold, timer function of the control output and timer time selecting, monitor output (Detection level Incident light level), Restore Factory Settings, Key Lock (Unlock, Lock, Lock (No Button))					
10 Link	IO-Link specification	Ver. 1.1					
O-Link Communication	Baud rate	COM2 (38.4 kbps), COM3 (230.4 kbps)					
specifications	Data length	PD size: 4 bytes, OD size: 1 byte (M-sequence type: TYPE_2_V)					
	Minimum cycle time	COM2: 3.5 ms, COM3: 1.2 ms					

^{1.} The IP67G is the degree of protection which is defined according to the JIS (Japanese Industrial Standards). The IP67 indicates the same level of protection as defined by the IEC, and the G indicates that a device has resistance to oil.

2. IO-Link mode: blinking

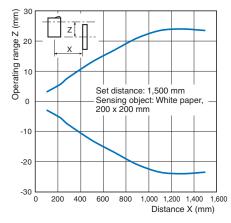


Engineering Data (Reference Value)

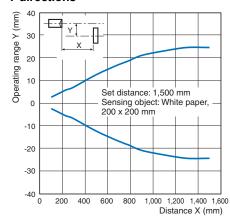
Operating Range

E3AS-F1500□

Z directions

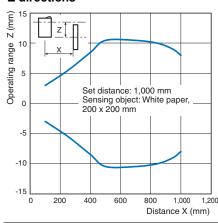


Y directions

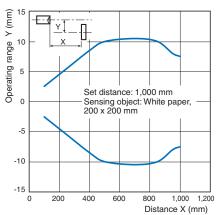


E3AS-F1000□

Z directions

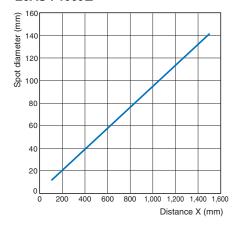


Y directions



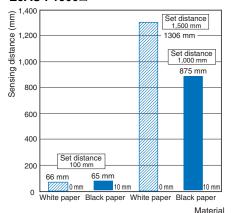
Spot Diameter vs. Sensing Distance

E3AS-F1500 □ E3AS-F1000 □

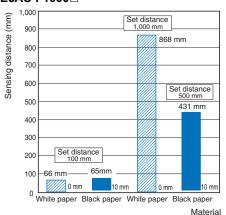


Close-range Characteristics

E3AS-F1500□

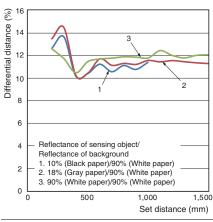


E3AS-F1000□

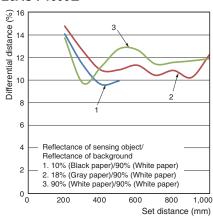


Differential distance for each sensing object Vs. Distance

E3AS-F1500□



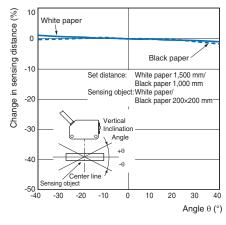
E3AS-F1000□



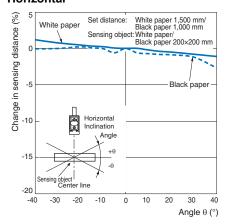
Sensing Object Angle Characteristics

E3AS-F1500□

Vertical

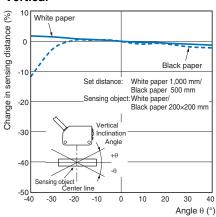


Horizontal



E3AS-F1000□

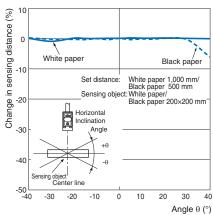
Vertical



Horizontal

E3AS-F1000 □

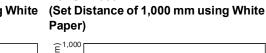
Paper)

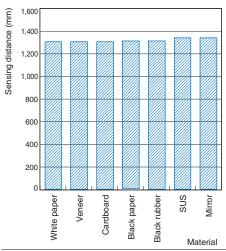


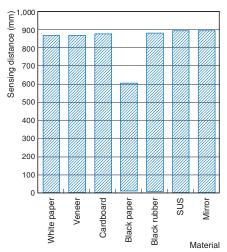
Sensing Distance vs. Sensing Object Material

E3AS-F1500□

(Set Distance of 1,500 mm using White Paper)



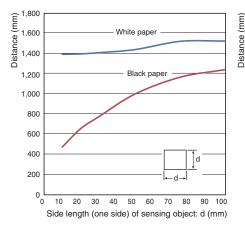


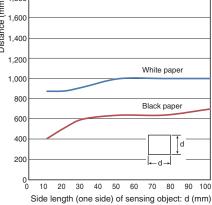


Sensing Object Size vs. Sensing Distance

E3AS-F1500□







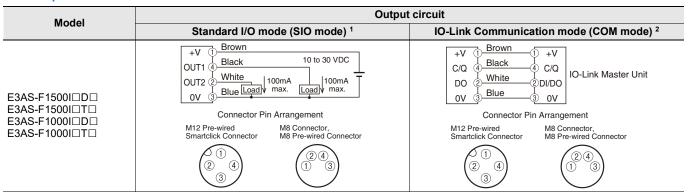
I/O Circuit Diagrams/ Timing Charts

NPN Output

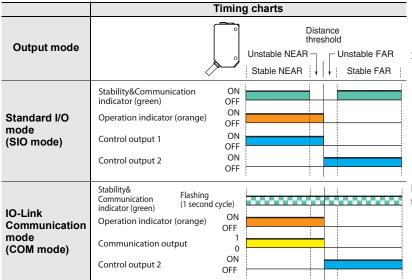
Model	Timing chart	Outpu	t circuit
E3AS-F1500I□N□ E3AS-F1000I□N□	Stability&Communication indicator (green) Operation indicator (orange) Control output 1 Control output 2 * Unstable NEAF ON OFF ON OFF ON OFF ON OFF ON OFF	 OUT1 (4) White OUT2 (2) Blue	100mA Load 100mA max. 10 to 30 VDC n Arrangement M8 Connector, M8 Pre-wired Connector

^{*} The initial value of control output 2 is reverse of control output 1.

PNP Output



- 1. Standard I/O mode is used as PNP ON/OFF output.
- IO-Link Communication mode is used for communications with the IO-Link Master. C/Q performs IO-Link communications. Sensor output DO performs ON/OFF output.



- 1 The initial value of control output 2 is reverse of control output 1.
- 2. The timer function of the control output can be set up by the IO-Link communications. (It is able to select ON delay, OFF delay, or one-shot function and select a timer time of 1 to 9,999 ms (T).)

ON delay	OFF delay	One Shot	
Sensing object Not Not Not Not Not Not Not Not Not No	Sensing Operation of the Control of	Sensing Present object Not Not OFF 0 OFF 0	

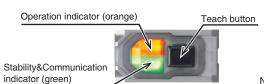
Please contact your Omron sales representative regarding the IO-Link setup file (IODD file).

Note: Shown above are the factory settings. Refer to the index list for the default settings at time of shipment from factory. PNP/COM output logic can be reversed by IO-Link communication.

The operation indicator (orange) lights up when control output 1 is ON or communication output is 1.

Nomenclature

E3AS-F1500 □ E3AS-F1000 □



Note: The indicators work differently depending on sensor status.

Safety Precautions

Be sure to read the precautions for all models in the website at: http://www.ia.omron.com/.

Warning Indications

<u></u> ₩ARNING	Warning level Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.
∴ CAUTION	Caution level Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction or undesirable effect on product performance.

Meaning of Product Safety Symbols

	General prohibition Indicates the instructions of unspecified prohibited action
	Caution, explosion Indicates the possibility of explosion under specific conditions
**	Laser Caution Indicates information related to laser safety

MARNING

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



⚠ CAUTION

Never use the product with an AC power supply. Otherwise, explosion may result.



To safely use laser products

⚠ WARNING

Do not expose your eyes to the laser beam either directly or indirectly (i.e., after reflection from a mirror or shiny surface). The laser beam has a high power density and exposure may result in loss of sight.



Laser safety measures for laser equipment are stipulated in Japan and other countries. For usage in Japan and for export to other countries combined with other products, follow the instructions described below categorized in three cases respectively.

- Usage in Japan
 The JIS C6802:2014 standard stipulates the safety
 precautions that users must take according to the class of the
 laser product. This product is classified into Class 1 defined
- 2. Usage in U.S.

by this standard.

When this product is installed in a device and exported to the U.S., it is subjected to the U.S. FDA (Food and Drug Administration) laser regulations. This product is classified into Class 1 by the IEC 60825-1:2007 standard according to the provisions of Laser Notice No. 50 of the FDA standard. This product is already reported to CDRH (Center for Devices and Radiological Health).

Accession Number: 1920014-000

Because the product is small, we can not attach an FDA certification label on the main body, so we enclose it in the packing box. When exporting a device equipped with the product to the U.S., attach an FDA certification label near the sensor mounting of customer equipment.

This leser product complies with 21 CFR 1040, 10 and 1040, 11 except for deviations pursuant to Laser Notice No. 50, dated June 24,2007 OMRON Corporation Shlokoji Horikawa, Shimogyo-ku, Kyoto 800–8530 JAPAN Place of manufacture.* Shanghal Factory, OMRON Corp. Manufactured in

FDA certification label

- 3. Usage in China
 - This product is classified into Class 1 by the IEC60825-1:2007 standard.
- Usage in a country other than U.S. and China.
 This product is classified into Class 1 by the IEC60825-1:2014 standard.

Precautions for Safe Use

The following precautions must be observed to ensure safe operation.

- Do not reverse the power supply connection or connect to an AC current.
- (2) Do not short the load.
- (3) Be sure that before making supply the supply voltage is less than the maximum rated supply voltage (30 VDC).
- (4) Do not use the product in environments subject to flammable or explosive gases.
- (5) Do not use the product under a chemical or an oil environment without prior evaluation.
- (6) Do not attempt to modify the product.

Precautions for Correct Use

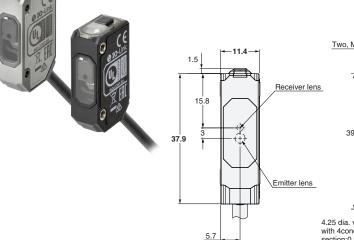
- (1) Do not hit the product using a hammer for installation.
- (2) The product must be installed with the specified torque or less. For M8 connector, the proper tightening torque is from 0.3 to 0.4 N·m. For M12 connector, the proper tightening torque is from 0.39 to 0.49 N·m. In case of M12 smartclick connector, manually tighten the connector.
- (3) Do not use the product in any atmosphere or environment that exceeds the ratings.
- (4) Output pulses may occur when the power supply is turned OFF. We recommend that you turn OFF the power supply to the load or load line first.
- (5) Use an extension cable less than 100 m long for Standard I/O mode and less than 20 m for IO-Link Communication mode.
- (6) Do not pull on the cable with excessive strength.
- (7) Please wait for at least 500 ms after turning on the product's power until it is available for use.
- (8) Though this is type IP67, do not use in the water, rain or outdoors.
- (9) If the Sensor wiring is placed in the same conduits or ducts as high-voltage or high-power lines, inductive noise may cause malfunction or damage. Wire the cables separately or use a shielded cable.
- (10) Do not use the product in locations subject to direct sunlight.
- (11) Do not use the product where humidity is high and dew condensation may occur.
- (12) Do not use the product where corrosive gases may exist.
- (13) If high-pressure washing water and so on hits the teach button, it might lead to malfunctioning. So, consider use of the key lock function.
- (14) Do not apply high-pressure washing water directly to the sensor's light emitting / receiving surface from a short distance. As the antifouling feature may be impaired, keep a sufficient distance from the light emitting / receiving surface.
- (15) Do not use the product at a location subject to shock or vibration.
- (16) To use a commercially available switching regulator, FG (frame ground) must be grounded.
- (17) Do not use organic solvents (e.g. paint thinner and alcohol) for cleaning. Otherwise optical properties and protective structure may deteriorate.
- (18) Be sure to check the influence caused by surrounding environments such as background objects and LED lighting before using the product.
- (19) Please dispose in accordance with applicable regulations.

Plastic case type

Sensors

Pre-wired Models/Pre-wired Connector Models E3AS-F1500□ (-M1TJ/-M3J)



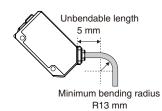


Metal case type 23.4 Two, M3 22 39.3 25.4 4.25 dia. vinyl-insulated round cable with 4conductors (Conductor cross section:0.2 mm² (AWG24),

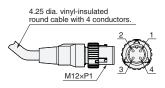
Insulator diameter: 1.1 mm), Standard length: 2 m

23.4 Two, M3 22 39.3 25.4 7.9 4.25 dia. vinyl-insulated round cable with 4conductors (Conductor cross section:0.2 mm² (AWG24), Insulator diameter: 1.1 mm), Standard length: 2 m

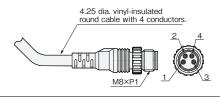
Minimum bending radius/unbendable length of cord



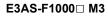
M12 Pre-wired Smartclick Connector type E3AS-F1500 -M1TJ/E3AS-F1000 -M1TJ



M8 Pre-wired connector type E3AS-F1500□-M3J/E3AS-F1000□-M3J

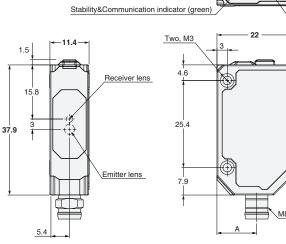


Connector Models E3AS-F1500 ☐ M3









Operation indicator (orange)

Teach button M8×P1

7.6

Metal case type (E3AS-F□M□ M3) :9.6m Plastic case type (E3AS-F□P□ M3) :11.€

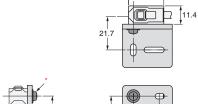
Accessories (Sold Separately)

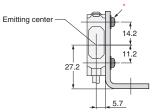
Mounting Brackets

E39-L201



Photoelectric Sensor Accessory are installed (Example of E3AS-F1500□)



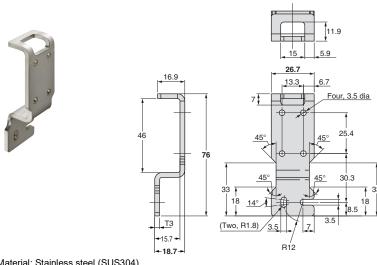




Material: Stainless steel (SUS304)

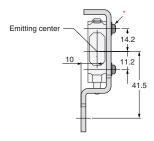
Accessories 2-M3-L12 Cross Recessed Pan Head Screws (Attached to SW+JIS W)

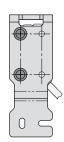
E39-L202



Photoelectric Sensor Accessory are installed (Example of E3AS-F1500□)



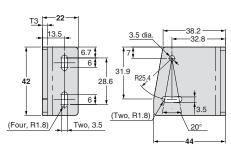




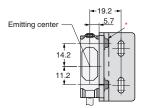
Material: Stainless steel (SUS304)

E39-L203





Photoelectric Sensor Accessory are installed (Example of E3AS-F1500□)





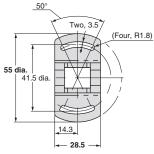
Material: Stainless steel (SUS304)

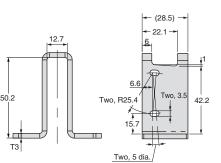
Accessories
2-M3-L12 Cross Recessed Pan Head Screws (Attached to SW+JIS W)

Accessories 2-M3-L12 Cross Recessed Pan Head Screws (Attached to SW+JIS W)

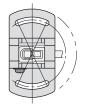
E39-L204

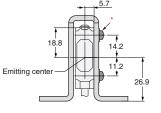






Photoelectric Sensor Accessory are installed (Example of E3AS-F1500□)





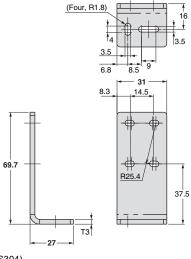


Material: Stainless steel (SUS304)

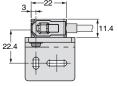
Accessories
2-M3-L12 Cross Recessed Pan Head Screws (Attached to SW+JIS W)

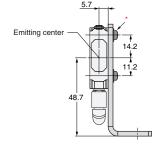
E39-L211

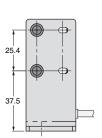




Photoelectric Sensor Accessory are installed (Example of E3AS-F1500□)





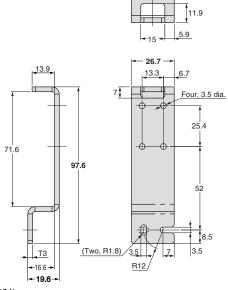


Material: Stainless steel (SUS304)

Accessories
2-M3-L12 Cross Recessed Pan Head Screws (Attached to SW+JIS W)

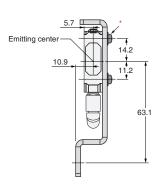
E39-L212

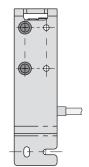




Photoelectric Sensor Accessory are installed (Example of E3AS-F1500□)





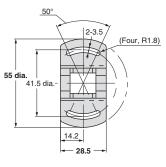


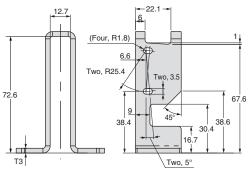
Material: Stainless steel (SUS304)

* Accessories 2-M3-L12 Cross Recessed Pan Head Screws (Attached to SW+JIS W)

E39-L214

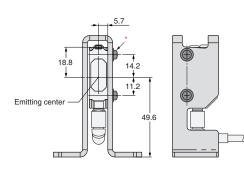






Photoelectric Sensor Accessory are installed (Example of E3AS-F1500□)





Material: Stainless steel (SUS304)

Accessories 2-M3-L12 Cross Recessed Pan Head Screws (Attached to SW+JIS W)



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