Digital Fiber Amplifier

E3X-DA-N



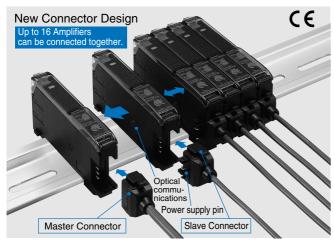
* UL-listed including UL991 tests/evaluations Applicable standard: UL3121-1 Standards for additional tests/evaluations for applications: UL991, SEMI S2-0200

Features

Reducing power line wiring meaning space is saved. New design for easier maintenance. Industry First Patent pending

The connector type that uses the wire-saving connector supplies power to the single-conductor slave connectors via the three-conductor master connector. Hence, the following three has been made possible.

- 1. Wiring is much simpler.
- 2. Relay connectors are not required meaning that space is used more efficiently and costs are reduced.
- 3. Simple inventory control because of no differentiation between master and slave in the amplifier section.

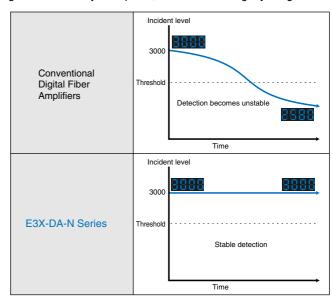


Super digital display by use of the Auto Power Control (APC) circuit Industry First

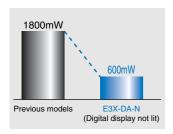
The incident level of LEDs used in sensors is prone to deteriorate with time and as a result, detection becomes unstable.

Using the APC (auto power control) circuit for the first time as the fiber sensor, the E3X-DA-N series has no digital value variations, realizing severe detection.

This makes the E3X-DA-N ideal for applications where a high degree of sensitivity is required, such as detecting crystal glass.



Power consumption reduced by 70%.



Power consumption has been reduced up to about 70% from 1800 mW to 600 mW. (If the digital display is off)



The digital display can be changed to full-OFF or Dark-ON during RUN.

Power consumption can be reduced by setting the display to Full-OFF/Dark-ON in applications where the digital display is rarely looked at during RUN.

(Can be set at the Mobile Console only)

Beeper-sized, new-generation Mobile Console unleashing the power of the ultimate fiber amplifier

Remote setting/adjustment function

Setting/teaching/fine adjustment can be made at the fiber front-end.

The Mobile Console has enabled setting and teaching at the fiber front-end, which could only be made at the amplifier. You can perform major adjustments while looking at the work position, etc.



Simultaneous turning possible using group teaching.

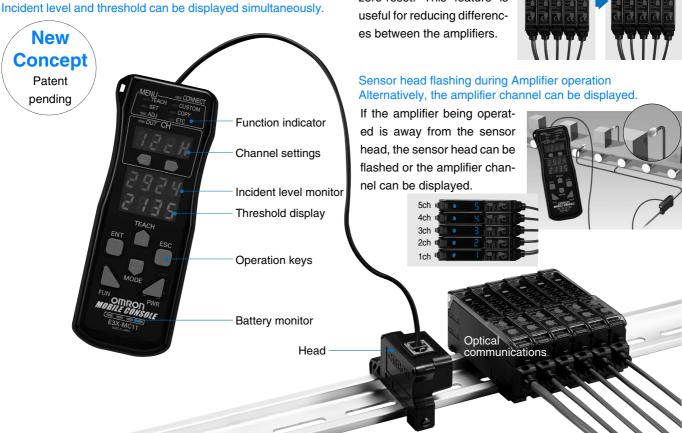
While teaching had to be performed for each Amplifier separately, it can now be performed for several Amplifiers at once using the Mobile Console.



Differences in incident light avoided by group zero-reset

The incident levels of several amplifiers can be batchreset to zero by the group zero-reset. This feature is





Ordering Information

Amplifier units Prewired

Item	Chana	Control output	Model		
item	Shape	Control output	NPN output	PNP output	
Standard models		ON/OFF output	E3X-DA11-N	E3X-DA41-N	
Monitor-output models		•ON/OFF output •Monitor output	E3X-DA21-N	E3X-DA51-N	
Mark-detecting models (Blue LED)			E3X-DAB11-N	E3X-DAB41-N	
Mark-detecting models (Green LED)			E3X-DAG11-N	E3X-DAG41-N	
Infrared models	6 7	ON/OFF output	E3X-DAH11-N	E3X-DAH41-N	
Differential output type			E3X-DA11D		
Water-resistant models			E3X-DA11V	E3X-DA41V	
Twin-output models	rin-output models		E3X-DA11TW	E3X-DA41TW	

Connector type

Item	Shape	Applicable Connector (order separately)		Control output	Model		
item	Snape			Control output	NPN output	PNP output	
Standard models		Master	E3X-CN11	ON/OFF output	E3X-DA6	E3X-DA8	
Standard models		Slave	E3X-CN12	ON/OTT output	L3X-DA0	L3X-DA0	
Manitar autaut madala		Master	E3X-CN21	·ON/OFF output	E3X-DA7	E3X-DA9	
Monitor-output models		Slave	E3X-CN22	·Monitor-output	E3X-DA7	E3X-DA9	
Mark-detecting models		Master	E3X-CN11		E3X-DAB6	E3X-DAB8	
(Blue LED)		Slave	E3X-CN12		E3X-DAD0	E3X-DAB0	
Mark-detecting models		Master	E3X-CN11		E3X-DAG6	E3X-DAG8	
(Green LED)		Slave	E3X-CN12	ON/OFF output			
Infrared models		Master	E3X-CN11		E3X-DAH6	E3X-DAH8	
minareu modeis		Slave	E3X-CN12		E3X-DAHO	E3X-DAH6	
Differential output type		Master	E3X-CN11		F0V D 4 0 D		
Differential output type		Slave	E3X-CN12		E3X-DA6D		
Water-resistant models (M8 Connector)		XS3F-M421-40□-A XS3F-M422-40□-A			E3X-DA14V	E3X-DA44V	
Twin-output models		Master	E3X-CN21		E3X-DA6TW	E3X-DA8TW	
rwin-output models		Slave	E3X-CN22		LOX-DAOT W	COX-DAGTYV	

A-421 E3X-DA-N

Amplifier units Connectors (Order Separately) Note: Stickers for Connectors are included as accessories.

Item	Shape	Cable length	No. of conductors	Model
Master			З	E3X-CN11
connector		2 m	4	E3X-CN21
Slave con-		2 111	1	E3X-CN12
nector		,	2	E3X-CN22

Sensor I/O Connectors (Order separately)

Size	Cable type	Shape		Cable length		Model
		Straight		2 m		XS3F-M421-402-A
M8	Standard cable	connector		5 m	4 conductors	XS3F-M421-405-A
IVIO	Standard Cable	L-shaped		2 m	4 conductors	XS3F-M422-402-A
		connector		5 m		XS3F-M422-405-A

Mobile Console (Order Separately)

Shape	Model	Remarks	
	(Set form) E3X-MC11	Mobile Console with head, cable and AC adapter provided as ac- cessories. Power supply provid- ed by chargeable battery	
	E3X-MC11-C1	Mobile Console	
	E3X-MC11-H1	Head	
	E39-Z12-1	Cable (1.5 m)	

In general, amplifier units and connectors are sold separately. Refer to the following tables for order placement.

amplifier units						
Туре	NPN	PNP				
Standard models	E3X-DA6	E3X-DA8				
Mark-detecting models	E3X-DAB6	E3X-DAB8				
Mark-detecting models	E3X-DAG6	E3X-DAG8				
Infrared models	E3X-DAH6	E3X-DAH8				
Differential output	E3X-DA6D					
Monitor-output models	E3X-DA7	E3X-DA9				
Twin-output models	E3X-DA6TW	E3X-DA8TW				

Applicable Connector (order separately)				
Master connector	Slave connector			
F3X-CN11	F3X-CN12			
20% 01111	LOX GIVIZ			
E3X-CN21	E3X-CN22			

When using 5 sets

amplifier units (5 Units)

1 Master Connector + 4 Slave Connectors

Rating/Performance

Amplifier units Prewired

	Туре	Standard models	Monitor-out- put models	Mark-detec	ting models	Infrared models	Water-resis- tant models	Twin-output models
Model	NPN output	E3X-DA11-N	E3X-DA21-N	E3X-DAB11-N	E3X-DAG11-N	E3X-DAH11-N	E3X-DA11V	E3X-DA11TW
	PNP output	E3X-DA41-N	E3X-DA51-N	E3X-DAB41-N	E3X-DAG41-N	E3X-DAH41-N	E3X-DA41V	E3X-DA41TW
ource ength)		Red LED (660	nm)	Blue LED (470 nm)	Green LED (525 nm)	Infrared LED (870 nm)	Red LED (660	nm)
supply vo	oltage	12 to 24 VDC =	±10%, ripple (p-	p) : 10% max.				
consump	otion	mode: Power of	consumption 72	0 mW max. (pov	ver consumption	n 30 mA max. a	t supply voltage	24 V) Digital
ON/OF	F output						or output type (c	lepends on the
Monitor	output		1 to 5 VDC, load 10 k min.					
ive circui	ts	Reverse polari 10 amplifiers)	ty protection, ou	itput short-circui	t protection, mu	tual interference	e prevention (po	ssible for up to
	_	0.25 ms for ope	eration and rese	et respectively				0.5 ms for operation and reset respectively
Standar	rd mode:	Operation/rese	Operation/reset: 1 ms each					2 ms for operation and reset respectively
		4 ms for opera	t ms for operation and reset respectively					7 ms for operation and reset respectively
ity settin	ıg	_		2. 4 :				Makila Oaataal
		is used, select	either OFF dela			is: 5 ms increme		
		Fiber-optic curi trol	rent digital con-				Fiber-optic cur control	rent digital
Zero res	set	Yes (negative i	indication possil	ble)				
Initial re	eset	Yes (setting co	nditions initializ	ed)				
Monitor	focus		Upper and lower limit val- ues of output range can be set per digital value of 100					
Operation indicator (orange), 7-segment digital incident level display (red), 7-segment digital incident percent display (red), incident level & threshold value double-bar display (green, red), 7-segment digit threshold value display (red)								
Display timing Normal/peak hold/bottom hold selectable								
direction	า	Normal/reverse	e selectable					
axis adjı	ustment	Yes (hyper flas	shing emission f	unction)				
t lighting		Incandescent I	amp: 10,000 lux	ux max. Sunlight 20,000 lux max.				
t temper	ature							°C, Groups of
Ambient humidity Operating/Storage: 35% to 85% RH (with no condensation)								
	urce ength) supply vocansump ON/OFI Monitor ve circui Super-le speed r Standar Super-le tance rr ity settir Timer for Automa er contre Zero res Initial re Monitor r lamp timing directior axis adjut t lighting	Model PNP output PNP output supply voltage consumption ON/OFF output Monitor output ve circuits Super-high-speed mode: Standard mode: Standard mode: ity setting Timer functions Automatic power control (APC) Zero reset Initial reset Monitor focus or lamp timing direction axis adjustment t lighting t temperature	Model NPN output E3X-DA11-N entree ength)	Model NPN output E3X-DA11-N E3X-DA21-N E3X-D	Model NPN output E3X-DA11-N E3X-DA21-N E3X-DAB11-N	Model NPN cutput E3X-DA11-N E3X-DA21-N E3X-DAB11-N E3X-DAG11-N E3X	Model NPN Part Part	Model NPN Port Port

		Туре	Standard models	Monitor-out- put models	Mark-detecting models		Infrared models	Water-resis- tant models	Twin-output models
	Model	NPN output	E3X-DA11-N	E3X-DA21-N	E3X-DAB11-N	E3X-DAG11-N	E3X-DAH11-N	E3X-DA11V	E3X-DA11TW
Item		PNP output	E3X-DA41-N	E3X-DA51-N	E3X-DAB41-N	E3X-DAG41-N	E3X-DAH41-N	E3X-DA41V	E3X-DA41TW
Insulation	on resista	ance	20 M min. at	500 VDC		•			
Dielectr	ric streng	th	1,000 VAC at 5	60/60 Hz for 1 m	ninute				
Vibratio	n resista	ince	10 to 55 Hz, 1.	5 mm double ar	nplitude for 2 ho	ours each in X, `	Y, and Z direction	ns	
Shock r	resistanc	е	Destruction: 50	0 m/s2 for 3 tim	nes each in X, Y	, and Z direction	าร		
Degree	Degree of protection IEC 60529 IP50 (with Protective Cover attached) IP6 pro cov				IEC 60529 IP66 (with protective cover at- tached)	IEC 60529 IP50 (with protective cover attached)			
Connec	ction met	hod	Prewired mode	ls (standard ler	igth: 2 m)				
Weight	Weight (Packed state) Approx. 100 g Approx. 110 g						Approx. 110 g	Approx. 100 g	
Mate-	Case		PBT (polybutylene terephthalate)						
rial	Cover		Polycarponate						Polyethersul- fone
Access	ories		Instruction mar	nual					

Connector type

Specifications that differ from those of the prewired type

	Туре	Standard models	Monitor-out- put models	Mark-detecting models		Infrared models	Water-resis- tant models (See note.)	Twin-out- put models
Model	NPN output	E3X-DA6	E3X-DA7	E3X-DAB6	E3X-DAG6	E3X-DAH6	E3X-DA14V	E3X-DA6TW
Item	PNP output	E3X-DA8	E3X-DA9	E3X-DAB8	E3X-DAG8	E3X-DAH8	E3X-DA44V	E3X-DA8TW
Connection method Connector type					M8 connector	Connector		
Weight (Packed state) Approx. 55 g					65 g	Approx. 55 g		

^{*} For waterproof type only, voltage resistance is 500 VAC 50/60 Hz 1 min

Amplifier unit Connectors

Item	Model	E3X-CN11/21/22 E3X-CN12				
Rated cu	ırrent	2.5 A				
Rated vo	ltage	50 V				
Contact	resistance	20 m max. (20 mVDC max., 100 mA max.) [By connection with amplifier unit and connection with adjacent connector (except conductor resistance of cable)]				
No. of ins	sertions	50 times (By connection with amplifier unit and connection with adjacent connector)				
Material	Housing	PBT (polybutylene terephthalate)				
Contacts		Phosphor bronze/gold-plated nickel				
Weight (Packed state)		Approx. 55 g	Approx. 25 g			

Mobile Console

Item Model	E3X-MC11		
Supply voltage	Charged with AC adapter		
Connection method	Connected via adapter		
Weight (packed state)	Approx. 580 g (Console only: 120 g)		

For details of the Mobile Console, refer to the instruction manual attached to the product.

Digital Fiber Amplifier

* Differential output digital fiber amplifier (E3X-DA11D/E3X-DA6D)

Applicable fiber unit characteristic

(Through-beam model)

Sensing distance (mm) (Values in parentheses: When using the E39-F1 lens unit)					1 lens unit)			
Sensitivity switching			HIGH		LOW		Standard object (mm) *1	
11 steps can be set		1	2	3-11	1	2	3-11	Minimum sensing object *2 (Opaque object) de-
Fiber type	Re- sponse time	270 or 570 s	0.5 or 1 ms	1 to 200 ms or 2 to 400 ms	270 or 570 s	0.5 or 1 ms	1 to 200 ms or 2 to 400 ms	fault
E32-ET11R		240 (1680)	280 (1960)	370 (2590)	140(980)	180(1260)	240 (1680)	1 mm dia. (0.01
E32-ET21R		50	60	80	30	40	50	mm dia.)
E32-T16WR		580	690	910	350	450	580	(0.3 mm dia.)*3
E32-T16PR		380	450	600	230	290	380	(0.2 mm dia.)

The sensing object is operating.

(Reflective model)

		Sensing distance (mm)*1						
Sensitivity switching			HIGH		LOW		Standard object (mm) *2	
11 steps can be set		1	2	3-11	1	2	3-11	Minimum sensing object *3 (Opaque object) de-
Fiber type	Re- sponse time	270 or 570 s	0.5 or 1 ms	1 to 200 ms or 2 to 400 ms	270 or 570 s	0.5 or 1 ms	1 to 200 ms or 2 to 400 ms	fault
E32-ED11R		80	90	120	45	60	80	150 x 150 (0.01 mm dia.)
E32-ED21R		13	15	20	7	10	13	25 x 25 (0.01 mm dia.)

^{*1.} Sensing distance indicates values for white paper.
*2. The sensing object is operating.

^{*2.} Value applied when the response time is set to 3-11. The value can be detected if the temperature varies within the operating ambient temperature. (Value when the sensing object is operating)
*3. The digital value is 1000 and the value can be detected in each detection area.
Refer to the E3X-DA-N for the note of the fiber unit.

Value applied when the response time is set to 3-11. The value can be detected if the temperature varies within the operating ambient temperature. (Value when the sensing object is operating)

Note: Refer to E3X-DA-N for the note of the fiber unit.

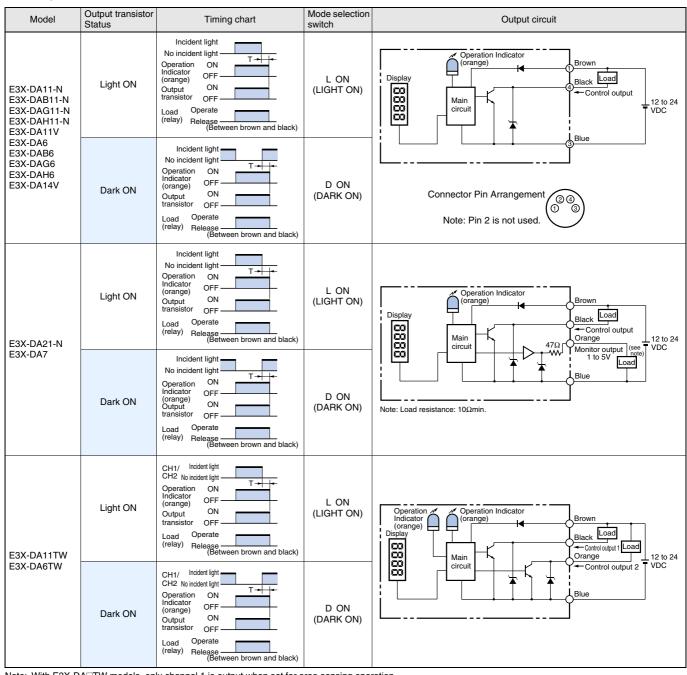
Differences from E3X-DA-N amplifier unit

		Differential output type (edge detection type)				
	Item	Prewiring type	amplifier units with Connectors			
Item	NPN output	E3X-DA11D	E3X-DA6D			
Power consumption		Power consumption 960 mW max. (at power supply voltage 24 V, power consumption 40 mA max.)				
Control ON/OFF output put		Load current 50 mA (residual voltage NPN/PNP: 1 V max. each) Open collector output type L.ON (ON at edge detection)/D.ON (OFF at edge detection) switch selectable				
Detection mode		One-side edge detection mode/both-side edge detection mode				
Response time		One-side edge detection mode: 270/500 s/1/2/4/10/20/30/50/100/200 ms selectable Both-side edge detection mode: 570 s/1/2/4/10/20/30/50/100/200/400 ms selectable				
	Timer function	OFF delay timer for L.ON ON delay timer for D.ON 0 to 5 s (1 to 20 ms: 1 ms increments, 20 to 20 increments, 200 ms to 1 s: 100 ms, 1 to 5 s: 1 s increments)				
	APC	Yes				
Func	Zero reset	Yes (negative indication)				
tions	Initial reset	Yes (setting conditions initialized)				
	Sensitivity switching	Yes (HIGH/LOW)				
Teaching level One-point teaching level 1 to 50% variable (1% increments)		ents)				
Indicator lamp		Operation indicator (orange), 7-segment incident level display (red), 7-segment digital edge detection level display (red)				

For the outline drawings and other details, refer to the instruction manuals attached to the products.

Output Circuit Diagram

NPN output

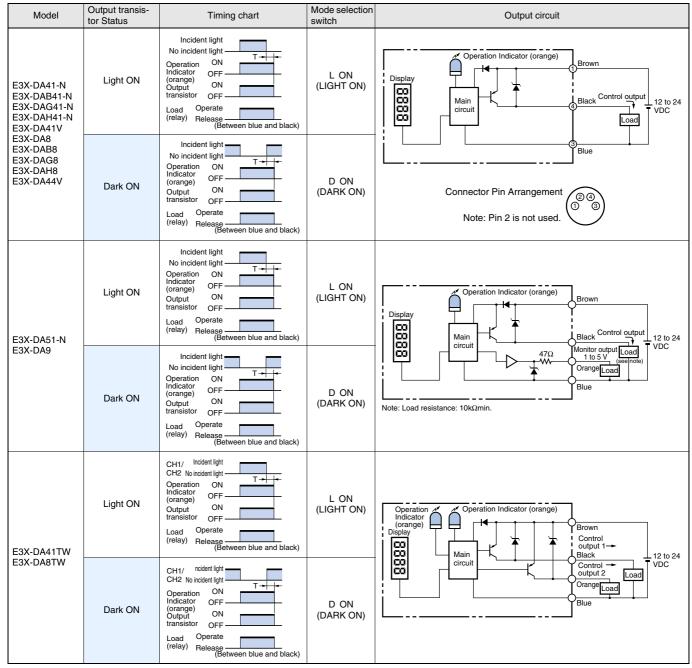


Note: With E3X-DA TW models, only channel 1 is output when set for area sensing operation.

L ON The range between the CH1 and CH2 thresholds turns ON

D ON The range between the CH1 and CH2 thresholds turns OFF (CH2 is always OFF)

PNP output

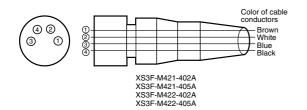


Note: With E3X-DA□TW models, only channel 1 is output when set for area sensing operation.

L ON The range between the CH1 and CH2 thresholds turns ON

D ON The range between the CH1 and CH2 thresholds turns OFF (CH2 is always OFF)

Connectors (Sensor I/O Connectors)



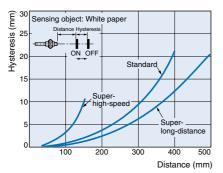
Class	Wire, outer jacket color	Connector pin No.	Application
	Brown	1)	Power sup- ply (+V)
For DC	White	2	-
TOIDC	Blue	3	Power sup- ply (0 V)
	Black	4	Output

Note: Pin 2 is open.

Characteristic data (default)

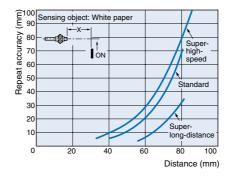
Hysteresis vs. sensing distance

Reflective model E32-D11L



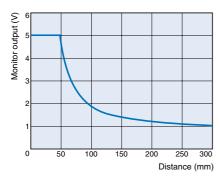
Repeated accuracy vs. sensing distance

Reflective model E32-DC200



Monitor output vs. distance (In standard mode)

Through-beam E32-TC200

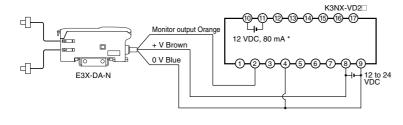


Reflective model E32-DC200



Connection

Connection with linear sensor controller K3NX-VD2□



- Use this service power supply for the Sensor with reference to the power consumption of each Sensor
- the power consumption of each Sensor.

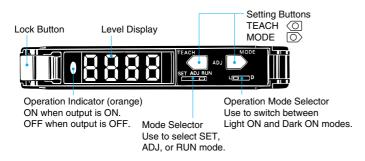
 Note: 1. Various I/O Units are available for the K3NX. Select an appropriate output type depending on the application.

 2. For details about the K3NX, refer to the K3NX Datasheet
 - For details about the K3NX, refer to the K3NX Datasheet (N084) or the K3NX Operation Manual (N90).
 - This wiring is for the K3NX, with DC power supply specifications and the Monitor (Analog) Sensor with DC power supply specifications. Check respective power supply specifications before wiring them.

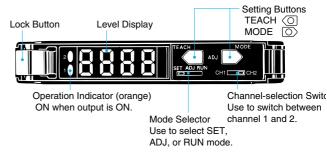
Nomenclature:

amplifier units

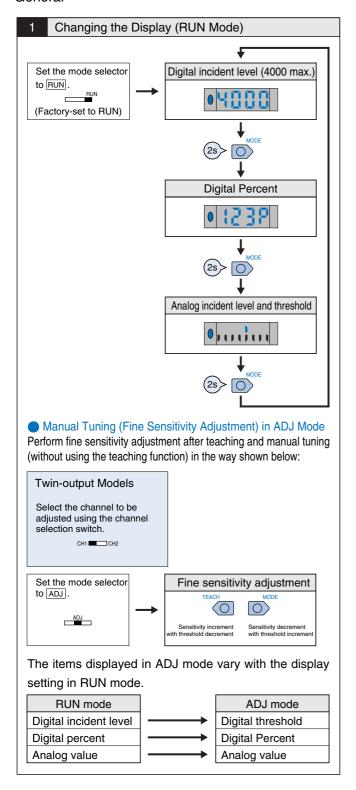
Standard, monitor-output, mark-detecting, infrared, and water-resistant models

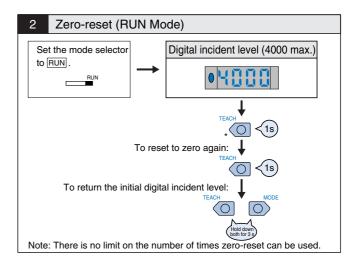


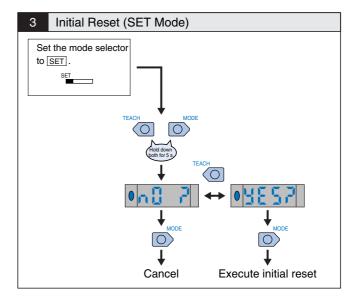
Twin-output models

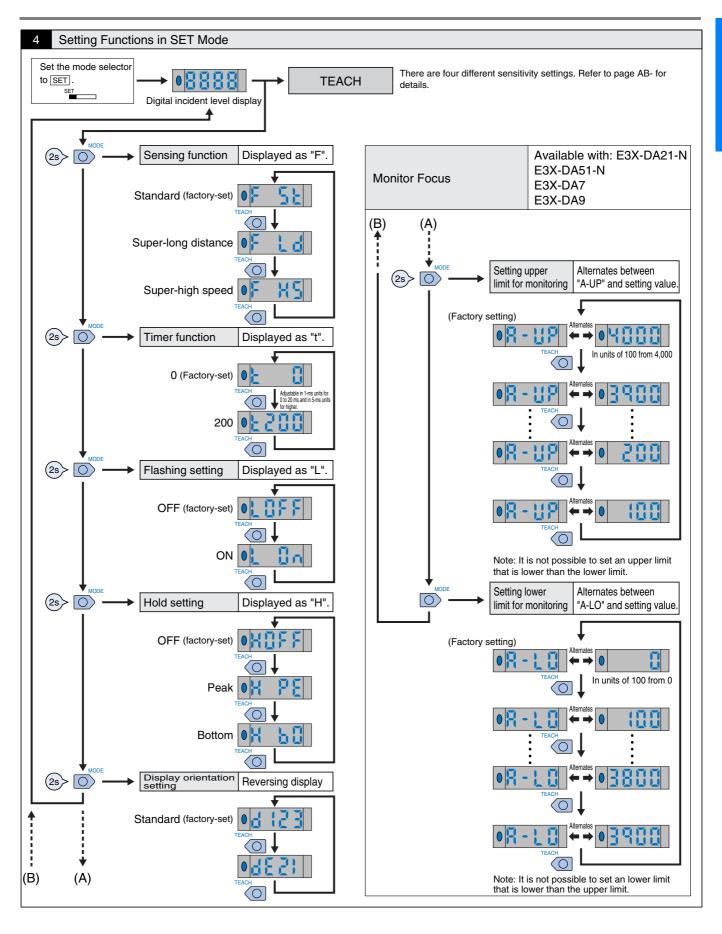


General

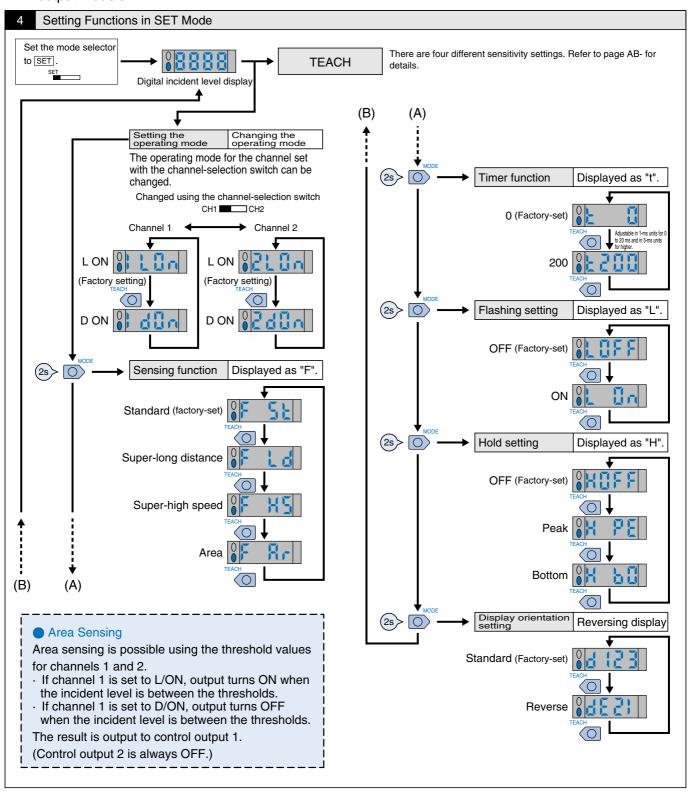








Twin-output models



General

When teaching is performed (SET mode)

- The four types of teaching given below are available.
- Once setting is made, operation is performed in the preset status thereafter. When a teaching error occurs, the level indicators flash in red. Restart setting from the beginning.

Twin-output models only Select the channel to be adjusted using the channel selection switch. CHI CH2

Set the mode selector to SET.

Maximum Sensitivity Setting

Proce- dure	Operation	า
1	Set the mode selector to SET.	SET
2	Press the TEACH button for 3 seconds min.	TEACH 3s
3	Setting is completed when the red-lit level indicators turn to green. Then they return to the digital incident level display.	(green)
4	Set to RUN mode.	RUN

One-point without-object teaching

-		
Proce- dure	Operation	
1	Set the mode selector to SET.	SET
2	Press the SET button once (about 1 s).	TEACH 1s
3	Setting is completed when the red level indicators are turned ON. They then return to the digital incident level display.	0 111111 (red)
4	Set to RUN mode.	RUN
5	The threshold is automatically set with the object.	Object ON Output

Note: If one-point teaching is not available because the difference in level is too fine, try two-point teaching.

Operation Mode Selector

Operating mode	е	Operation
Light ON	L ON	└ ■ (Factory-set)
Dark ON	D ON	D

There is no operation mode selector for twin-output models.

Two-point With/Without-object Teaching

-					
Proce- dure	Operation				
1	Set the mode selector to SET.	SET			
2	With the work present, press the SET button once (about 1 s).	Object TEACH 1s			
3	The level indicators are lit red.	(red)			
4	If no work is pending, press the SET button once (about 1 s).	TEACH (1s)			
5	Setting is completed when the green indicators are turned ON. Then they return to the digital incident level display.	(green)			
6	Set to RUN mode.	RUN			
	·	·			

Note: With and without work may be in any order.

Pin-point teaching (for positioning)

т ш-р	Pin-point teaching (for positioning)				
Proce- dure	Operation				
1	Set the mode selector to SET.	SET			
2	If no work is pending, press the SET button once (about 1 s).	TEACH 1s			
3	The level indicators are lit red.	(red)			
4	Place the object in the desired position, and press the TEACH button for 3 seconds min.	Object TEACH 3s			
5	Setting is completed when the green indicators are turned ON. Then they return to the digital incident level display. (Red indicators start flashing if setting is not OK.)	(green)			
6	Set to RUN mode.	RUN			

Correct Use

Amplifier units

Design

Power ON

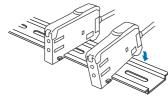
The sensor is ready to sense an object within 200 ms after turning the power ON. If the load and sensor are connected to different power supplies, always turn on the sensor power first.

Mounting

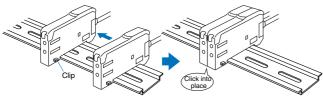
Connection/removing of amplifier units

(Connection)

1. Install the units one by one to the DIN rail.



2. Slide one unit toward the other, match the clips at the front ends, and then bring them together until they "click".



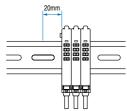
(Removing)

Slide one unit away from the other and remove them one by one. (Do not remove the connected units together from the DIN rail.)

- Note: 1 .When the amplifier units are connected to each other, the operable ambient temperature changes depending on the number of connected amplifier units. Check "Ratings/Performance".
 - Before connecting or removing the units, always switch power off.

Fitting of Mobile Console head

When fitting the Mobile Console head, a 20 mm or more clearance is needed on the left side.



Use of Mobile Console

For the twin output type (E3X-DA TW), up to 16 channels (eight E3X-DA TW units) can be set from the Mobile Console E3X-MC11. (Note that the operation mode and area detection cannot be set.)

Adjustment

Mutual interference prevention function

The digital display value may vary due to the light from the other sensor. In that case, low the sensitivity (raise the threshold) to stabilize detection.

EEPROM Write Error

If a write error occurs (operation indicator starts flashing) due to power-off, static electricity or other noise in the teaching mode, perform teaching again.

Optical communication

When connecting the amplifier units, assemble them in close contact. During operation, do not slide or dismantle the amplifier units.

Hysteresis adjustment

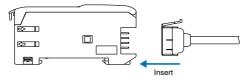
The Mobile Console allows hysteresis adjustment, but note that the unit may not operate properly if the hysteresis setting is lower than the factory value.

Amplifier Unit Connectors

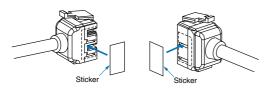
Installation

Connector installation

1. Insert the Master or Slave Connector into the amplifier unit until it clicks into place.



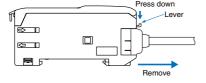
- Link amplifier units to each other after the master and slave Connectors have been inserted.
- 3. Apply the supplied seal to the non-connecting surface of the master/slave connector.



Note: Apply seal to the grooved side.

Removing Connectors

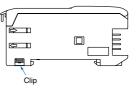
- 1. Slide the slave amplifier unit (s) on which the connector must be removed from the rest of the group.
- After the amplifier unit (s) has been separated, press down the lever on the connector and remove it. (Do not attempt to remove connectors without separating them from other amplifier units first.)



Mounting End Plate (PFP-M)

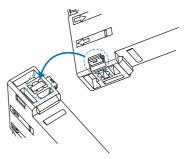
Depending on the installation, an amplifier unit may move during operation. In this case, use an end plate.

Before installing an end plate, remove the clip from the master amplifier unit using a nipper or similar tool.

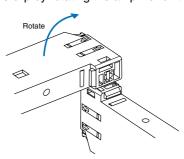


The sensor bottom is also equipped with a clip removing mechanism.

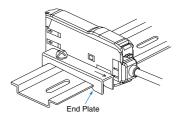
1. Insert the clip to be removed into the slit underneath the clip on another amplifier unit.



2. Remove the clip by rotating the amplifier unit.



When fitting the Mobile Console, set the end plate in the guide as shown in the following figure.

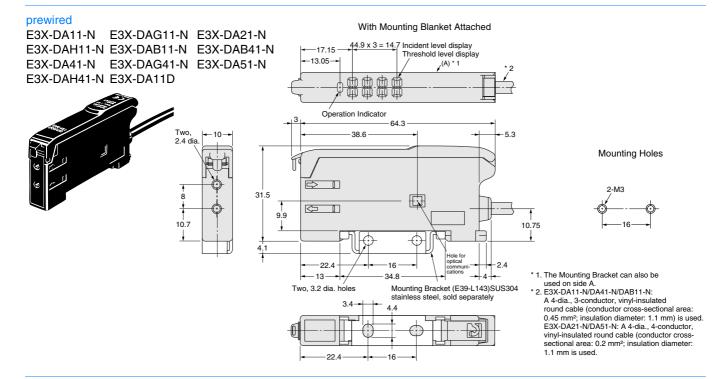


Tensile stress for connectors (including cables)

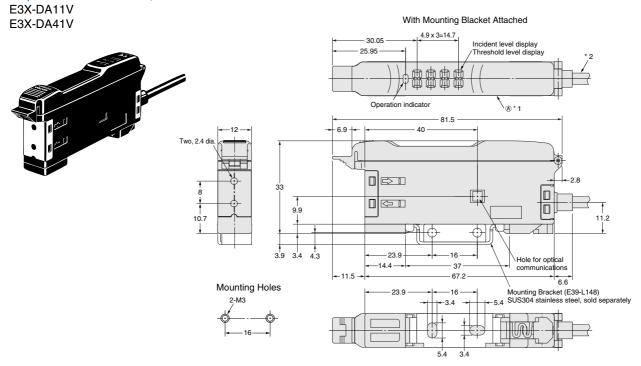
E3X-CN11, E3X-CN21, E3X-CN22: 30 N max.

E3X-CN12: 12N max.

Amplifier Units



Amplifier units with Cables, Water-resistant Models



 * 1. The mounting Bracket can also be used on side A.
 * 2. 4-dia., 3-conductor, vinyl-insulated round cable (conductor cross-sectional area: 0.2 mm²; insulation diameter: 1.1 mm is used.

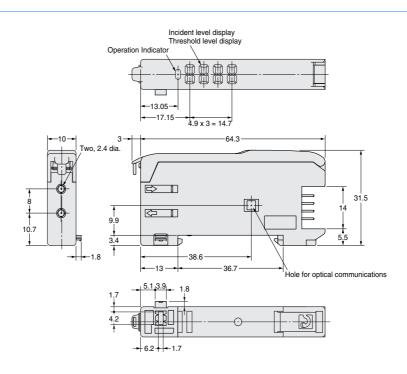
With Mounting Blanket Attached Amplifier units with Cables, Twin-output Models E3X-DA11TW 1.9 x 3 = 14.7 Incident level display Threshold level display (A) * 1 --17.15 -E3X-DA41TW **←**13.05→ Operation Indicator -38.6 Mounting Holes 31.5 10.7 10.75 -22.4 -16 Mounting Bracket (E39-L143)SUS304 Two, 3.2 dia. holes 3.4-* 1. The Mounting Bracket can also be used on side A. * 2. A 4-dia., 4-conductor, vinyl-insulated round cable (conductor cross-sectional area: 0.2 mm²; insulation diameter: 1.1 mm) is used.

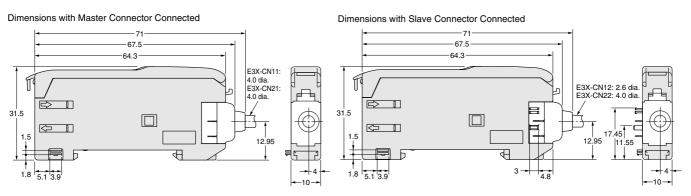
Connector type E3X-DA6E3X-DAG6 E3X-DA7E3X-DAH6

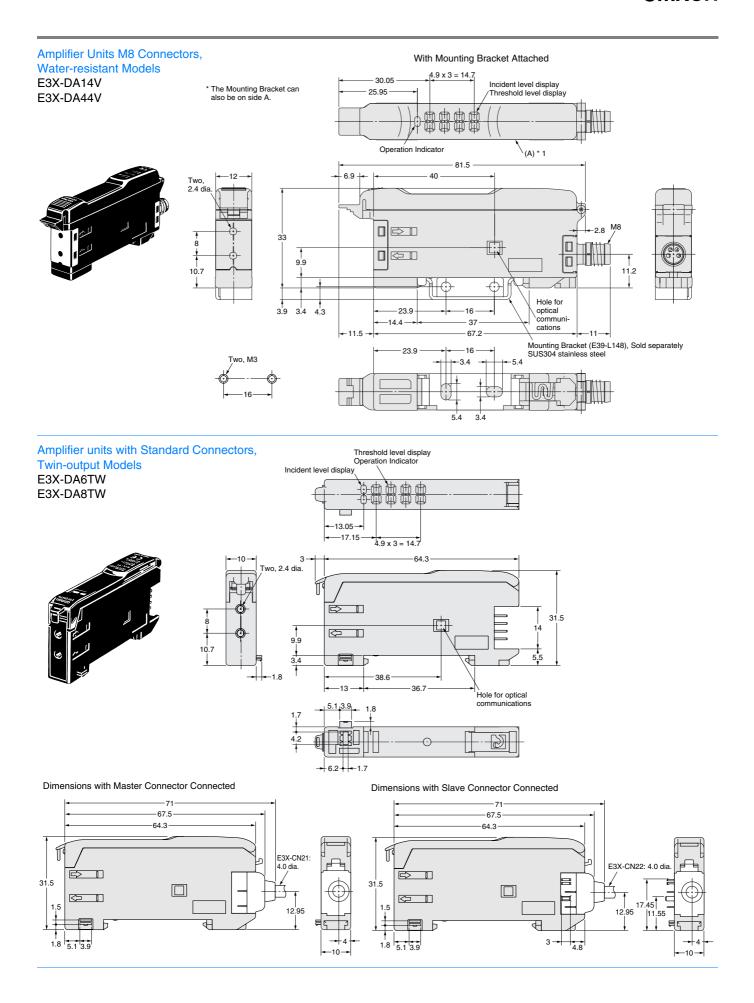
E3X-DA7E3X-DA110 E3X-DA8E3X-DAB8 E3X-DA9E3X-DAG8

E3X-DAB6E3X-DAH8 E3X-DA6D



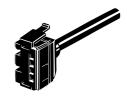


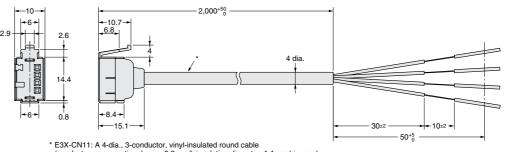




Amplifier Unit Connectors





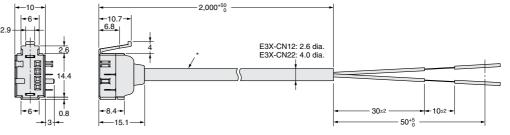


E3X-CN11: A 4-dia., 3-conductor, vinyl-insulated round cable (conductor cross-sectional area: 0.2 mm²; insulation diameter: 1.1 mm) is used. E3X-CN21: A 4-dia., 4-conductor, vinyl-insulated round cable (conductor cross-sectional area: 0.2 mm²; insulation diameter: 1.1 mm) is used.

Slave connector

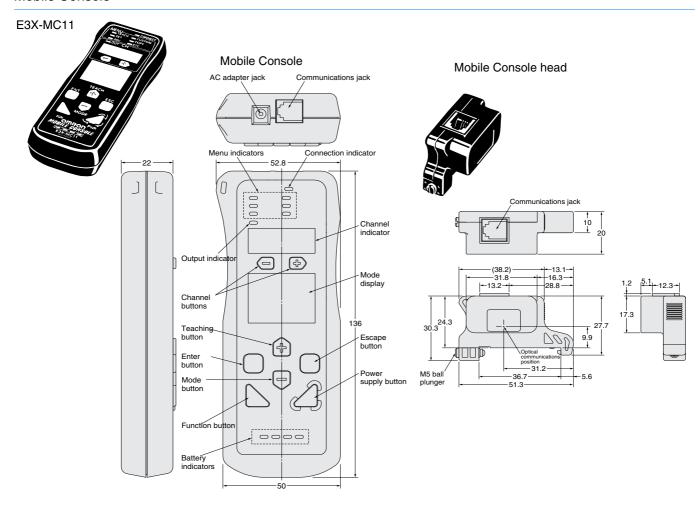
E3X-CN12 E3X-CN22





* E3X-CN12: A 2.6-dia., single-conductor, vinyl-insulated round cable (conductor cross-sectional area: 0.2 mm²; insulation diameter: 1.1 mm) is used. E3X-CN22: A 4-dia., 2-conductor, vinyl-insulated round cable (conductor cross-sectional area: 0.2 mm²; insulation diameter: 1.1 mm) is used.

Mobile Console



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. E22E-EN-01

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