

Analog Output Models

E3X-DA-S/E3C-LDA Series

High-speed, High-resolution Analog Output Meets a Wide Range of Applications

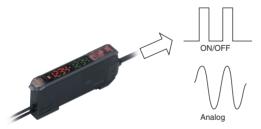


- Position control, height distinction, and other applications with analog output.
- Select the detection mode (response speed, as high as 80 μs) to suit the application.
- Easy, one-touch sensitivity setting with the Power Tuning function.

Features

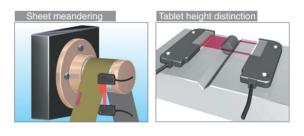
Analog Control Output

Outputs at a voltage of 1 to 5 V depending on the incident light level (digital display). Applicable to position control, height distinction, and a variety of other applications.



High Speed, High Precision

Select the detection mode that best suits the application. High-speed response of 80 μs (super-high-speed mode) enables use when high-speed positioning is required.



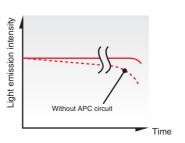
Easy Settings

Make settings easily and precisely while checking them on the digital display. Use the Power Tuning function to make saturation and other sensitivity adjustments with the press of a button.



Stabilizing APC Function

The built-in APC function monitors and controls the light emission intensity. This helps to minimize fluctuating emission levels caused by degradation of the emitter.



Ordering Information

■ Digital Fiber Amplifier

	ig.ta.						
	Typo	Annogrango	Functions	Туре			
	Type	Appearance	Functions	NPN output	PNP output		
	Pre-wired Models						
			Analog output	E3X-DA11AN-S	E3X-DA41AN-S		

■ Photoelectric Sensor with Separate Digital Amplifier (Laser-type)

Tuno	Appearance	Functions	Туре	
Type			NPN output	PNP output
Pre-wired Models		Analog output	E3C-LDA11AN	E3C-LDA41AN

Ratings and Specifications

Model			Digital Fiber Amplifier	Photoelectric Sensor with Separate Digital Amplifier (Laser-type)	
	Type —		E3X-DA11AN-S	E3C-LDA11AN	
Item			E3X-DA41AN-S	E3C-LDA41AN	
Control output		t	Voltage output 1 to 5 VDC (with connected load of 10 kΩ min.)		
Analog output	Repeat accuracy		Super-high-speed mode: 1.5% F.S. High-speed mode: 1.5% F.S. Standard mode: 1% F.S. High-resolution mode: 0.75% F.S.	Super-high-speed mode: 4% F.S. High-speed mode: 4% F.S. Standard mode: 2% F.S. High-resolution mode: 2% F.S.	
	Temperature characteristics		0.3% F.S./°C		
Super-high-speed mode		eed mode	Operate or reset: 80 μs	Operate or reset: 100 μs	
Response	High-speed mode		Operate or reset: 250 μs		
time	Standard mode		Operate or reset: 1 ms		
	High-resolution mode		Operate or reset: 4 ms		

Note 1: The Power Tuning function cannot be used in super-high-speed mode.

Note 2: Other performance items and functions are the same as those of general-purpose models.

For details, refer to the data sheet for the E3X-DA-S (Cat. No. E336) and the E3L-LDA (Cat. No. E338).

A Full Line-up of Digital Fiber Amplifiers



Green, blue, and infrared light sources are available in addition to red.







E3X-DA□AN-S







Threshold-compensating amplifier



This document provides information mainly for selecting suitable models. Please read the *Instruction Sheet* carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

Note: Do not use this document to operate the Unit.

OMRON Corporation

Industrial Automation Company

Application Sensors Division

Sensing Devices and Components Division H.Q. Shiokoji Horikawa, Shimogyo-ku,

Kyoto, 600-8530 Japan

Tel: (81)75-344-7068/Fax: (81)75-344-7107

Regional Headquarters

OMRON EUROPE B.V.

Sensor Business Unit Carl-Benz-Str. 4, D-71154 Nufringen,

Tel: (49)7032-811-0/Fax: (49)7032-811-199

OMRON ELECTRONICS LLC

1 East Commerce Drive, Schaumburg, IL 60173 U.S.A.

Tel: (1)847-843-7900/Fax: (1)847-843-8568

OMRON ASIA PACIFIC PTE. LTD. 83 Clemenceau Avenue, #11-01. UE Square.

239920 Singapore Tel: (65)6835-3011/Fax: (65)6835-2711

OMRON CHINA CO., LTD. BEIJING OFFICE

Room 1028, Office Building, Beijing Capital Times Square No. 88 West Chang'an Road,

Beijing, 100031 China

Authorized Distributor:

Cat. No. E358-E1-01 Printed in Japan 0305-2M (0305) (B)