

NEW

OMRON

Analog Output Models

E3X-DA-S/E3C-LDA Series

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

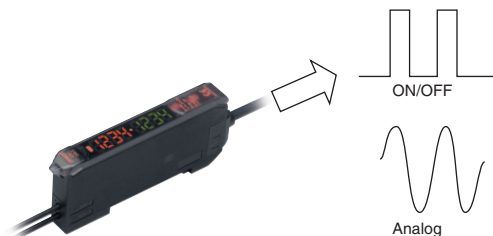
- Position control, height distinction, and other applications with analog output.
- Select the detection mode (response speed, as high as 80 μ s) to suit the application.
- Easy, one-touch sensitivity setting with the Power Tuning function.



Features

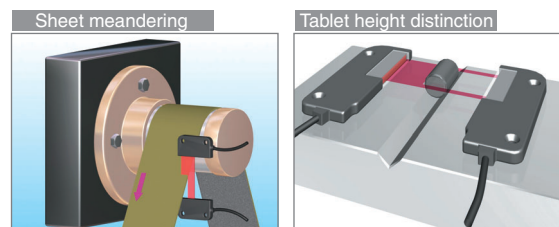
Analog Control Output

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.



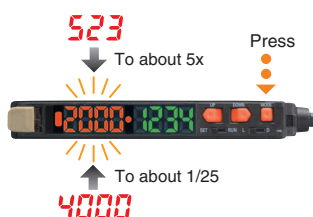
High Speed, High Precision

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



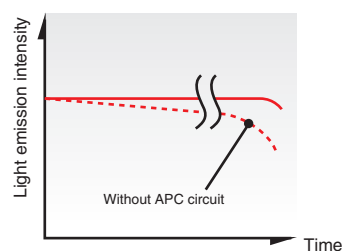
Easy Settings

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

Type	Appearance	Functions	Type	
			NPN output	PNP output
Pre-wired Models		Analog output	E3X-DA11AN-S	E3X-DA41AN-S

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

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

Ratings and Specifications

Item	Type	Model	Digital Fiber Amplifier	Photoelectric Sensor with Separate Digital Amplifier (Laser-type)
		NPN output	E3X-DA11AN-S	E3C-LDA11AN
		PNP output	E3X-DA41AN-S	E3C-LDA41AN
Analog output	Control output		Voltage output 1 to 5 VDC (with connected load of 10 kΩ min.)	
	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	
Response time	Super-high-speed mode		Operate or reset: 80 μs	Operate or reset: 100 μs
	High-speed mode		Operate or reset: 250 μs	
	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

From high-speed to long-distance applications
General-purpose models



E3X-DA□-S

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

For distinguishing a range between two thresholds
Twin output models



E3X-DA□TW-S

For teaching with an input signal
External input models



E3X-DA□RM-S

Expands applications with analog output
Analog output models



E3X-DA□AN-S

Simple functions and operation
Limited-function models



E3X-DA□SE-S

Threshold-compensating amplifier
Advanced ATC models



E3X-DA□AT-S

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,
Germany
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
Tel: (86)10-8391-3005/Fax: (86)10-8391-3688

Authorized Distributor:

Note: Specifications subject to change without notice.

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