

**NEW**

**OMRON**

## New Models That Eliminate Worries about Digital Sensor Setting Mistakes

Limited-function Models: Simple and Easy

- One-key, one-operation concept for easy operation.
- Threshold value setting with direct operation performed while monitoring the detection status.
- Lock function to prevent operating errors through unintentional operation.

Easy and Reliable Digital Sensors with the Same Detection Performance as Previous Models



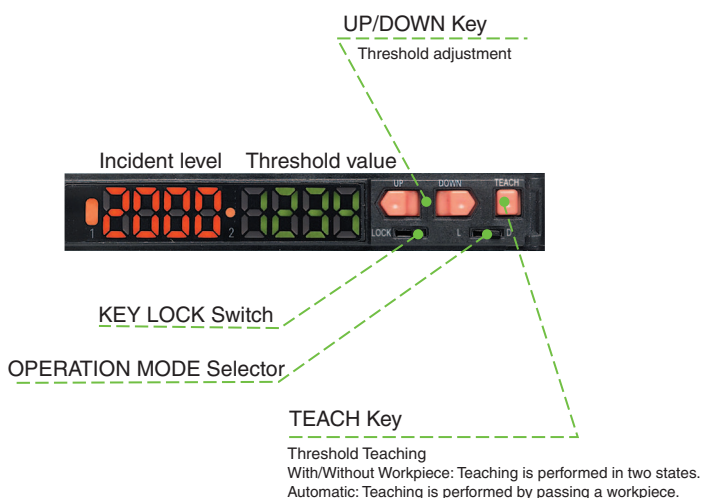
Digital Fiber Sensors  
E3X-DA□SE-S

## Technology

### The Simplest Digital Fiber Sensor

Some people think that digital sensors with their advanced performance are difficult to use, so we went back to the drawing board to rethink performance and functions.

Without changing basic functions like APC and digital displays, OMRON created a Digital Fiber Sensor that can be used as easily as the familiar sensors with sensitivity adjustment knobs.

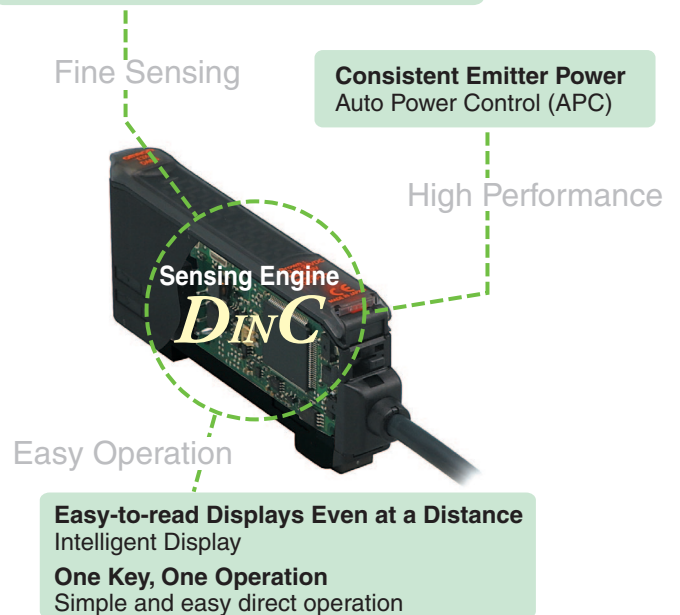


Threshold Teaching  
With/Without Workpiece: Teaching is performed in two states.  
Automatic: Teaching is performed by passing a workpiece.

### The *D<sub>INC</sub>* Engine for High-performance Sensing



OMRON's many years of accumulated sensing technology and high-speed digital processing techniques merge to meet onsite needs. Our goal is high-performance sensing that provides easy, reliable application.

Reliable Detection of Small Workpieces  
12-bit A/D converter (4,000 resolution)



Easy-to-read Displays Even at a Distance  
Intelligent Display  
**One Key, One Operation**  
Simple and easy direct operation

## Ordering Information

Type	Appearance	Model	
		NPN output	PNP output
Pre-wired Models		E3X-DA11SE-S	E3X-DA41SE-S
Connector Models		E3X-DA6SE-S	E3X-DA8SE-S

## Ratings and Specifications

Item	Type	Model	Digital Fiber Sensor	
		NPN output	E3X-DA11SE-S	E3X-DA6SE-S
		PNP output	E3X-DA41SE-S	E3X-DA8SE-S
Light source (wavelength)		Red LED (650 nm)		
Power supply voltage		12 to 24 VDC $\pm$ 10%, ripple (p-p): 10% max.		
Power consumption		960 mW max. (Power supply: 24 V, Current consumption: 40 mA max.)		
Control output		Load power supply: 26.4 VDC max., Open-collector output, Load current: 50 mA max. (Residual voltage: 1 V max.)		
Protection circuits		Power supply reverse polarity protection, Output short-circuit protection		
Response time		Operate or Reset: 1 ms		
Sensitivity setting		Teaching or manual adjustment		
Functions	Auto power control	High-speed control method for emission current		
	Mutual interference prevention	Optical communications sync, possible for up to 10 Units		
Indicators		Operation indicator (orange)		
Digital displays		Twin digital displays (incident level + threshold)		

Note: Basic performance is the same as the E3X-DA-S Series. Refer to the E3X-DA-S Datasheet (E336) for details.

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.**

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Note: Specifications subject to change without notice.

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