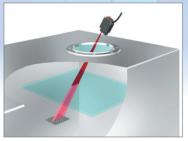
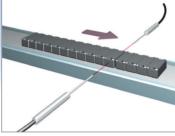


New Models That Counteract the Decline in Operating Rates Caused by Dust and Dirt

Advanced ATC Models

- Active Threshold Control (ATC) Automatically adjusts the threshold value.
- ATC Error Output (Selectable Function)
 Provides an error output when ATC does not adjust the threshold value.
- Alarm Output (Selectable Function) Provides an alarm when maintenance is required.





Glass substrate detection though

Chip component detection



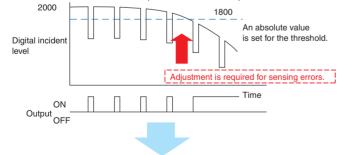
Technology

Intelligently Solve Problems Onsite with ATC Function

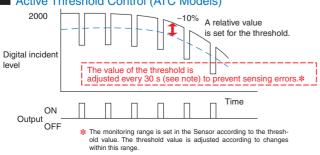
A unique OMRON algorithm has been used that can determine whether changes have been caused by dust and dirt or by differences in workpieces.

The threshold value is automatically adjusted by the Sensor according to changes to increase equipment operating rates by reducing sensing errors. This is particularly true in applications requiring high-precision detection.

Fixed Threshold Value (Previous Models)



Active Threshold Control (ATC Models)



The $D_{\mathit{IN}}C$ 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), high-speed response of 48 µs (Fiber Sensors)



Easy-to-read Displays Even at a DistanceIntelligent Display

Eliminates the Need for Distance Mode SettingsPower Tuning

Ordering Information

■ Digital Fiber Sensor

Туре	Appearance	Functions	Model		
			NPN output	PNP output	
Pre-wired Models		ATC ATC error output	E3X-DA11AT-S	E3X-DA41AT-S	
Connector Models		Alarm output	E3X-DA6AT-S	E3X-DA8AT-S	

■ Separate Digital Amplifier Laser Sensors

Туре	Appearance	Functions	Model		
			NPN output	PNP output	
Pre-wired Models		ATC ATC error output	E3C-LDA11AT	E3C-LDA41AT	
Connector Models		Alarm output	E3C-LDA6AT	E3C-LDA8AT	

Ratings and Specifications

Model		Model	Digital Fiber Sensors		Separate Digital Amplifier Laser Sensors		
т.		NPN output	E3X-DA11AT-S	E3X-DA6AT-S	E3C-LDA11AT	E3C-LDA6AT	
Item	ype	PNP output	E3X-DA41AT-S	E3X-DA8AT-S	E3C-LDA41AT	E3C-LDA8AT	
	Super-high-speed m		Operate or Reset: 80 μs		Operate or Reset: 100 μs		
Response time	High-speed mode		Operate or Reset: 250 μs		Operate or Reset: 250 μs		
	Standard mode		Operate or Reset: 1 ms				
	High-resolution mode		Operate or Reset: 4 ms				
	ATC		Active threshold control (used for output 1)				
Functions	I/O settings		The signal that is output can be selected (used for output 2): ATC error output				
	Start	up operation	The operation when power is turned ON can be selected: No operation, PT, or PT + ATC				

Note: Basic performance is the same as the Advanced Twin-output Sensors. Refer to E3C-LDA Datasheet (E338) and E3X-DA-S Datasheet (E336) for details.

Only differences from the Advanced Twin-output Sensors have been given above.

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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