

Digital Fiber Sensors

E3X-DA-S

High functionality digital fiber amplifier

- High functionality digital fiber amplifier with advanced timing, LED power control and signal processing functionality providing highest detection accuracy and stability even for the most challenging objects and settings.
- Power tuning function to adjust the received light to a maximum, minimum or pre-defined value
- Auto power and threshold adjustment functions for highest operational stability
- Two outputs for window monitoring or two level detections (e.g. object + object state change)



Ordering information

Item	Function								Order code	
	Power tuning	Timer	Auto-threshold compensation (ATC)	Twin output	External input	Differential operation	Wet process 'tough mode'	Power saving 'Eco' functions (display/LED off)	NPN	PNP
Pre-wired	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	E3X-DA21-S 2M	E3X-DA51-S 2M
Fiber amplifier connector ^{*1}	Yes	Yes	Yes	Yes - selectable		Yes	Yes	Yes	E3X-DA7-S	E3X-DA9-S
M8 connector	3 pin	Yes	Yes	*2					E3X-DA13-S	E3X-DA43-S
	4 pin								E3X-DA14-S	E3X-DA44-S

*1. Order fiber amplifier connector E3X-CN_ separately

*2. For fiber amplifiers with these functions and connecting with M8 connector, order the fiber amplifier connector models above and the pigtail connector E3X-CN21-M3J-2 with 30cm PVC cable and M8 plug.

Fiber amplifier connectors

Shape	Type	Comment	Order code
	Fiber amplifier connector	2 m PVC cable	E3X-CN21
		30 cm PVC cable with M12 plug connector (4 pin)	E3X-CN21-M1J 0.3M
		30 cm PVC cable with M8 plug connector (4 pin)	E3X-CN21-M3J-2 0.3M

Mounting Bracket

Appearance	Model	Quantity
	E39-L143	1

End Plate

Appearance	Model	Quantity
	PFP-M	1

Features

Power tuning

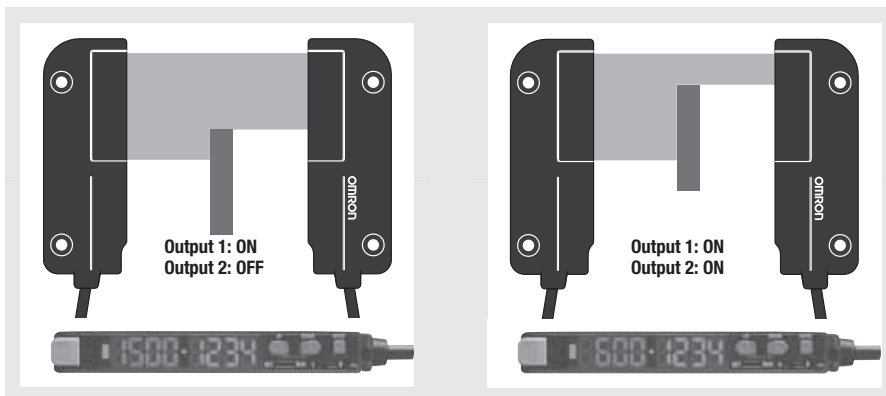


Timer functions

ON delay	OFF delay	One-shot	ON delay and OFF delay	
				<p>T_1: ON-delay set time</p> <p>T_2: OFF-delay set time</p> <p>T_1 and T_2 can be set separately.</p>

Adjust the output signal length and timing

Twin output



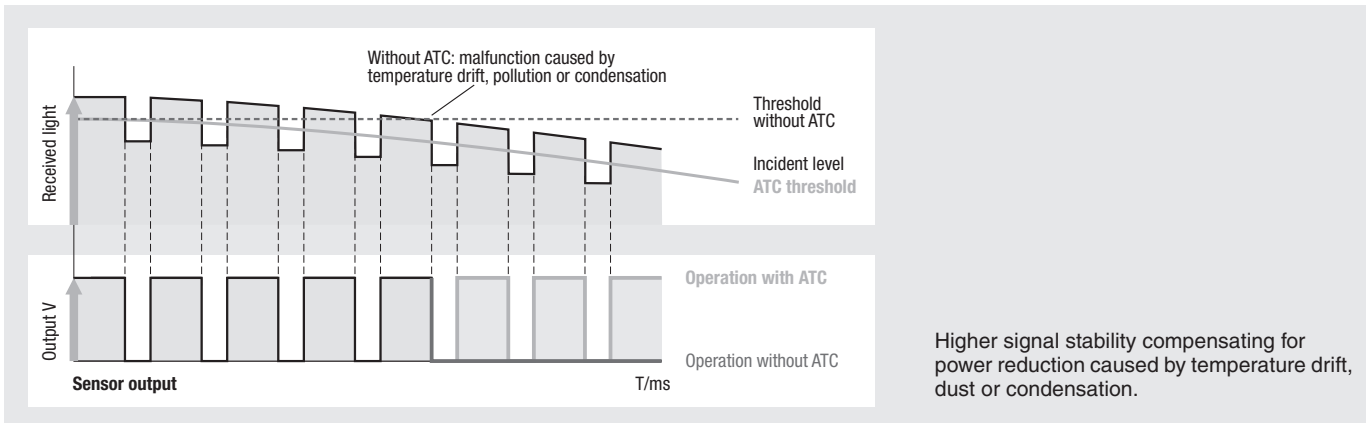
The two outputs can be used to detect two different light levels

Differential detection



Triggering on single or double signal edges

Active-threshold control (ATC)



Higher signal stability compensating for power reduction caused by temperature drift, dust or condensation.