

Wet Process Sensor

E32-L11FP Head Unit E32-L11FS/L12FS Head Unit E3X-DA□□TG-S Amplifier Unit

Stable Detection of Glass in Wet Processes

Non-contact Operation Simplifies Mounting and Maintenance



Heat-resistant PVC/ Fluororesin Model E32-L11FP

/ Cleaning

/ Etching

/ Resist Developing

New Concept: New Algorithm "Tough Mode" Eliminates Interference from Water Droplets

High resistance to liquid splatter for incredibly stable detection.



4000 1000 With glass

U IUUU Without glass



SUS316L/Fluororesin Model E32-L11FS/L12FS

/ Resist Stripping

Handles 85°C/70°C

Note: E3X-DA□□TG-S in this catalog have been discontinued at the end of March 2017.

Non-contact Detection

Detection is possible whether the Head Unit is installed vertically or horizontally.

Less maintenance is required because there are no mechanical parts.

realizing

Height adjustment is very easy because of the wide sensing area.



Ordering Information

Туре	Appearance (mm) *	Sensing distance (mm)	Standard object	Min. bending radius (mm)	Features	Model
Limited-reflective	Free-cut	8 to 20 mm from the lens tip (recommended sensing distance: 11 mm) 19 to 31 mm from the center of mounting			Materials: Heat-resistant PVC and fluororesin IP67 at 60°C	E32-L11FP 2M
		hole A (recommended sensing distance: 22 mm) (See the dimension drawings.)	Glass (t = 0.7 mm)	R40		E32-L11FP 5M
	Free-cut	8 to 20 mm from the lens tip (recommended sensing distance: 11 mm) 32 to 44 mm from the center of mounting hole A (recommended sensing distance: 35 mm) (See the dimension drawings.)			Materials: SUS316L and fluororesin IP67 at 85°C	E32-L11FS 2M
						E32-L11FS 5M
					Materials: SUS316L and fluororesin IP67 at 70°C	E32-L12FS 2M
						E32-L12FS 5M

* Free-cut Indicates models that allow free cutting.

Amplifier Units

Ampliner Onlis								
Annogrange	Connection method	Functions	Model					
Appearance		Functions	NPN output	PNP output				
	Pre-wired model (2 m)	Tough Mode Super Tough Mode ON-delay and OFF-delay timer	* E3X-DA11TG-S 2M	E3X-DA41TG-S 2M				

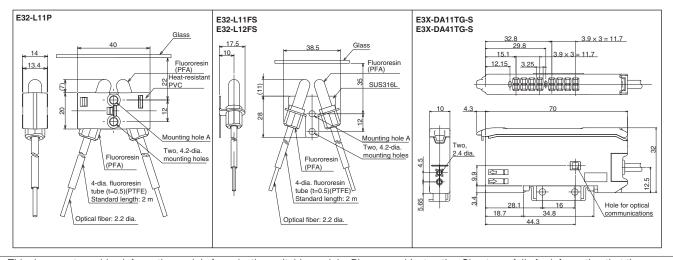
^{*} Production was discontinued.

Ratings and Specifications

	Model	E3X-DA11TG-S	E3X-DA41TG-S			
Item	Output	NPN open-collector output	PNP open-collector output			
Power supply voltage		12 to 24 VDC ±10%, ripple (p-p) 10% max.				
Power consumption		960 mW max. (current consumption: 40 mA max. at power supply voltage of 24 VDC)				
Control output		Load power supply voltage: 26.4 VDC, load current: 50 mA max.; residual voltage: 1 V max.				
		Tough Mode (TG): Operate/reset in 16 ms each, Super Tough Mode (STG): Operate/reset in 64 ms each Standard Mode (STND): Operate/reset in 1 ms each, High-resolution Mode (HRES) Operate/reset in 4 ms each				
Timer funct	ion	ON-delay/OFF-delay timer, OFF-delay timer, ON-delay timer, one-shot	DFF-delay timer, ON-delay timer, one-shot timer			

Note 1: The factory settings are as follows: Tough Mode with an ON-delay/OFF-delay timer.

Dimensions (Unit: mm



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

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^{2:} Be sure to check the chemicals and sprays used in the ambient environment before using the Wet Sensor