

Semiconductors

Non-electric fiber unit

# IPA valve\* stroke detection help

\*A valve used for isopropyl alcohol



Product name Flat U-Shape fiber unit Model No.

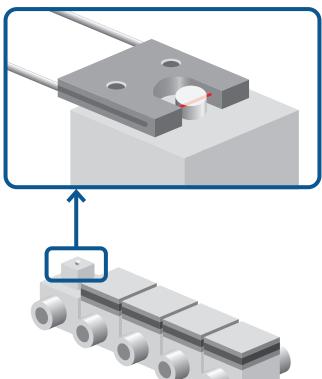
Process and equipment name

General front-end , single wafer cleaning system

# **Current Situation**

- IPA valve problems worsen because they cannot be detected immediately.
- Specifications for sensors vary depending on chemical solution.

Through-beam photosensors do not have a display or settings.



## **Current Issues**

#### Problem 1

There are no through-beam photosensors that can be used in an IPA environment.

## Problem 2

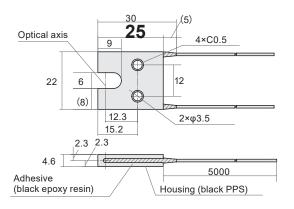
Design of the valve stroke detection mechanism cannot be standardized.

## Problem 3

The cause of errors is difficult to locate because the state at the time of occurrence cannot be checked.

Solution <b>1</b>	Non-electric fiber unit can be used in an area with IPA. Photosensors with electrical circuits/components cannot be used in IPA or other explosive atmospheres. This product can be used in explosive atmospheres by installing the fiber unit in the dangerous area and the amplifier unit in a safe area.
	Before use, carefully read the explosion protection regulations that apply to the facility and equipment where you plan to use the fiber unit.
Solution 2	Product installation specifications are the same as those for through-beam photosensors from other manufacturers.
	Redesign work is not necessary because the installation holes and optical axis position are the same as those for other manufacturers.
	Light intensity can be checked and threshold can be adjusted.
Solution 3	The light intensity value is shown on the combined amplifier unit. This is helpful when checking a problem and trying to identify its cause.

#### External dimensions (unit: mm)





#### Through-beam

г	Tuno	Beam direction	Appearance	Cable		Scanning distance (mm)			Core	Minimum detectable	Model No.
	Туре		Appearance	Bend radius	Length	Amplifier	Mode	Distance		size (mm)	woder no.
_	Flat U	_	-30 - +70 °C	R15	5m	HPX-EG00/01 HPX-EG50/51	nL SF Ft HP nL Ft	6 6 6 6 6 6	φ0.5	φ0.005	HPF-T054-L05

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## **Azbil Corporation**

Advanced Automation Company

Yamatake Corporation changed its name to Azbil Corporation on April 1, 2012.

1-12-2 Kawana, Fujisawa Kanagawa 251-8522 Japan

URL: https://www.azbil.com

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