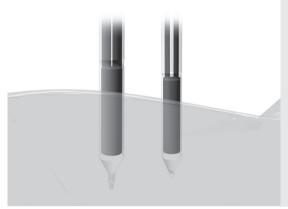
Contact-Type Liquid Level Fiber Units

All-resin structure ensures no metal contamination.



- Problems due to liquid accumulation are reduced by Azbil corporation's innovative front end structure.
- Product lineup includes a small-diameter model (Φ4) for easier cable routing.

PRINCIPLE OF DETECTION

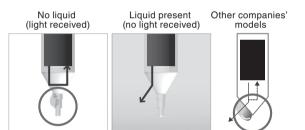
HPF-D027

 $(\mathbf{1})$

PED

Reliable detection is achieved by the proprietary structure of the fiber tip

The proprietary structure provided at the tip of the fiber reduces malfunction due to liquid clinging. The lens built into the tip of the fiber ensures a large difference in light quantity between the conditions when liquid is present and absent.



Tip and internal structure

Fiber optic cable Lens Molded prism tip The molded prism fiber tip readily sheds water drops.



The principle uses the difference in the reflective index due to the presence of liquid.

RECOMMENDED COMPATIBLE AMPLIFIER UNIT

HPX-EG Series





<Operation panel>

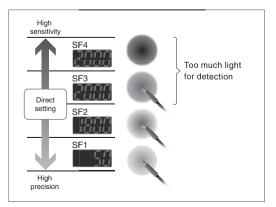


<Typical models>

Model No.	Output
HPX-EG00-1S	NPN
HPX-EG00-2S	PNP

Auto sensitivity switch function

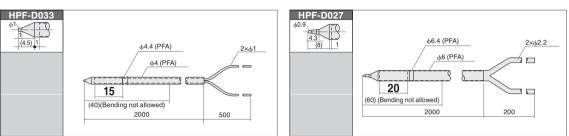
This function automatically optimizes the sensitivity setting during auto tuning, affording easy operation while delivering the highest detection performance.



Diffuse scan

Туре	Shape	Cable		Model No.
		Bend radius	Length	Model No.
φ4	-30 to +105°C	PFA area: R30 Cable area: R15	2 m Free cut	HPF-D033
ф6	-30 to +105°C	PFA area: R40 Cable area: R25	2 m Free cut	HPF-D027

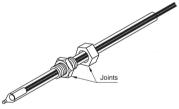
OUTER DIMENSIONS



USAGE NOTES (TYPE-SPECIFIC)

Contact-type liquid level detection

When installing the unit, use commercially available fluorine-resin joint that matches the outside diameter of the PFA tube.

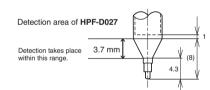


- Operation may be unstable with the following conditions: (1) Air bubbles adhering to the conical part of the sensing head
- (2) Chemical precipitate on the conical part of the sensing head (3) Liquids of high viscosity

• Some liquid properties, such as milky white color, may make the liquid undetectable.

(unit: mm)

- •Be careful not to bump the fiber unit tip (especially the conical part). Operation may be unstable due to scratches on or deformation of the sensing head.
- If chattering occurs due to liquid dripping or bubbles, use a timer.



Liquid level detection positions vary depending on the surface tension of the liquid and the wet condition of the fiber unit's detection area.

Before use, thoroughly read the "Precautions for use" and "Precautions for handling" in the Technical Guide on pages A-141 to A-156 as well as the instruction manual and product specification for this switch.