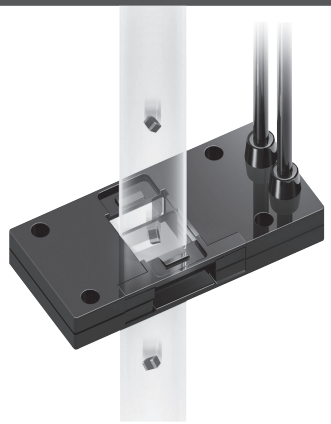
Fiber Units for Small Parts Passage Detection

HPF-T047 | Reliable detection of small parts moving through the pipe.

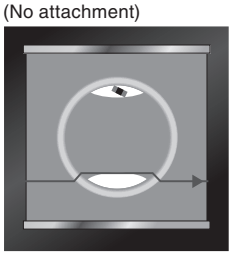


- **Reliably detects parts in the pipe.**
- **Weighs only 12 g.**
- **For operation inside a moving device, highly bend-tolerant optical fiber cable are used.**
- **Wire lead-out follows the pipe, allowing a smaller footprint.**
- **By changing the attachment, the width of the detection area can be adjusted to match the pipe diameter.**

PRODUCT FEATURES

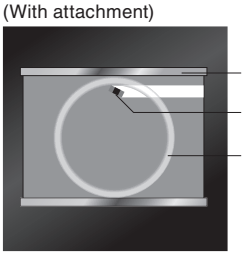
Attachments suited to different pipe diameters improve detection stability.

(No attachment)

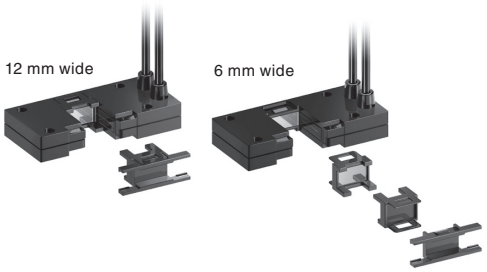


There is an area of unreliable detection at the pipe rim due to light refraction.

(With attachment)



Use of a reflector matching the pipe diameter achieves reliable detection even at the rim.



Swapping attachments easily gives the optimal area width.

RECOMMENDED COMPATIBLE AMPLIFIER UNIT

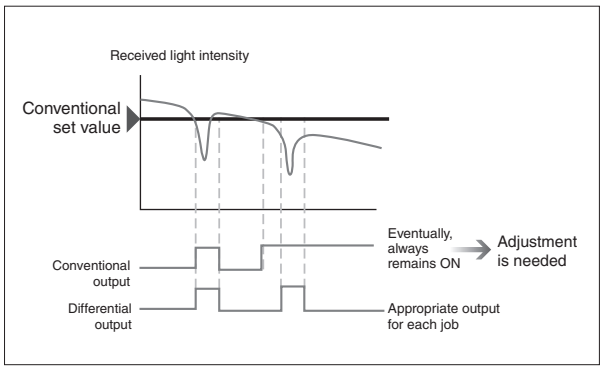
HPX-AG08 (differential setting) model

<Exterior view>

<Operation panel>

Model No.	Output
HPX-AG08-3S	NPN

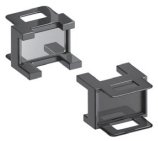
Unaffected by gradual light-level changes or stain buildup, this model provides stable detection. In addition, since the light level differentiation signal is transmitted as a second output, this model provides advance notice of sensitivity limitations.



OPTIONS

Mixing fiber unit **HPF-EU02A1**

Attachment for small-diameter pipes **HPF-AU□□**



Pipe diameter	Output
4 mm	**HPF-AU04**
6 mm	**HPF-AU06**
8 mm	**HPF-AU08**

ORDER GUIDE

●Thru scan

Area width	Shape	Cable		Model No.
		Bend radius	Length	
12 mm	 −30 to +70°C	R4	0.5 m	**HPF-T047**

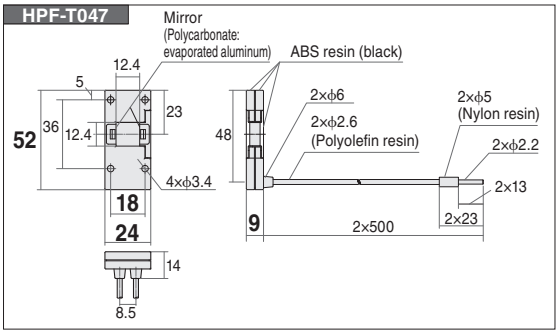
Product name	Shape	Cable		Model No.
		Bend radius	Length	
Mixed fiver unit	 −30 to +70°C	R25	2 m Free cut	**HPF-EU02A1**

*Area width can be changed with attachments (sold separately).
*Use **HPF-T047** in combination with **HPF-EU02A1**.
*Use **HPF-EU02A1** for scanning distances of 50 cm or more.

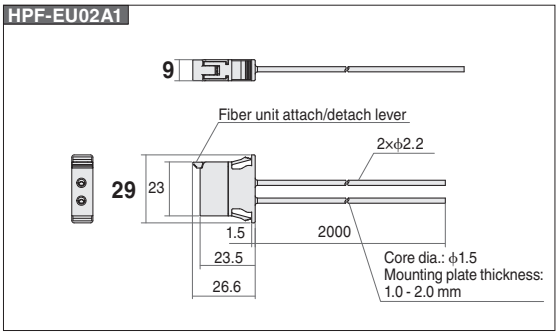
OUTER DIMENSIONS

(unit: mm)

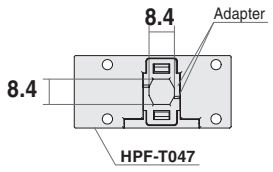
HPF-T047



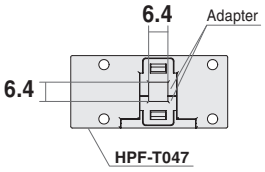
HPF-EU02A1



HPF-AU04
(when used with **HPF-T047**)



HPF-AU06
(when used with **HPF-T047**)



HPF-AU08
(when used with **HPF-T047**)