Wide Beam Fiber Unit

Three choices of light beam width and detection type

![Light beam width](15mm) HPF-T021T

![Light beam width](15mm) HPF-T021S

![Light beam width](30mm) HPF-T021WT

**Applications**

Combination with the HPX-AG06 (2-output model) digital fiber-optic sensor

When detecting sheet meander, the meander limits in both directions can be set with a single sensor.

Can be used for a target object whose passing position is not constant, or for discriminating part size by intercepted light level.

**Precautions for use**

Depending on installation conditions and type of unit or accompanying amplifier, the displayed incoming light level may vary between sensors. To standardize the readings, use the HPX-AG's displayed value shift function or relative intensity display function.

Combination with the HPX-MA (1–5Vdc analog output) fiber-optic sensor

Sample applications include simple measurement of meandering or part size.

**Incoming light level and target object movement**

Range: 10mm; Target object: opaque; Sensitivity: fine; Resp.: normal

Sensor can detect a notch on an off-center wafer, for example.

**Selection guide**

<table>
<thead>
<tr>
<th>Family</th>
<th>When used with the HPX-AG</th>
<th>Scanning distance (mm)</th>
<th>Features</th>
<th>Cable length (cuttable)</th>
<th>Bend radius</th>
<th>Catalog listing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wide beam</td>
<td>HP3</td>
<td>780</td>
<td>Array 5mm wide</td>
<td>Cut length 2m</td>
<td>R4</td>
<td>HPF-T021</td>
</tr>
<tr>
<td></td>
<td>HP3</td>
<td>3600</td>
<td>Beam 15mm wide</td>
<td></td>
<td>R15</td>
<td>HPF-T021T</td>
</tr>
<tr>
<td></td>
<td>HP3</td>
<td>3500</td>
<td>Beam 15mm wide Side view</td>
<td></td>
<td></td>
<td>HPF-T021S</td>
</tr>
<tr>
<td></td>
<td>HP3</td>
<td>3600</td>
<td>Beam 30mm wide</td>
<td></td>
<td></td>
<td>HPF-T021WT</td>
</tr>
</tbody>
</table>
**External dimensions**

**HPF-T021**
- 8A
- 30 VDC
- 790 mm

**HPF-T021T**
- R15
- 30 VDC
- 300 mm

**HPF-T021S**
- R15
- 30 VDC
- 300 mm

**HPF-T021W**
- R15
- 30 VDC
- 300 mm

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**Related products**

**PBZ Series edge sensor**

Makes high-accuracy measurements using parallel laser beams.

Light beam width: 7mm and 30mm

Detects transparent objects.

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**HPF-T021T Parallel motion characteristics when used with the HPX-AG (sensing type setting: HP3)**

<table>
<thead>
<tr>
<th>Scanning distance (mm)</th>
<th>Lengthwise motion</th>
<th>Widthwise motion</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>500</td>
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<tr>
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<tr>
<td>2000</td>
<td>250</td>
<td>250</td>
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<tr>
<td>2500</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>3000</td>
<td>350</td>
<td>350</td>
</tr>
</tbody>
</table>

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**Accessories**

3 sizes (0.5 x 15, 2 x 11, and 0.5 x 7 mm) slit attachment is included with the HPF-T021T. The HPF-T021W comes with 2 slits, 5 x 20 and 5 x 20 mm. Use when light level (display) is saturated due to installation distance or type of amplifier.

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