PHOTO SENSOR

TYPE SELECTION:

SENSING MODE
P=Photo type
F=Optical fiber type

SENSING DISTANCE
10=10cm
300=3M
2000=20M

OUTPUT MODE
N=NPN DC mode
P=PNP DC mode
A=2 wire AC mode
R=Relay mode
1=Normally open (PM series)
2=Normally closed (PM series)

FIBER LENGTH
50=50cm
100=1m
200=2m

BODY SHAPE
Q=Square type
S=Screw type
T=Rectangular type
F=Flat type
M=Flat type (Mini)
G=Groove type
H=Screw type with Handle

METHOD of DETECTION
D=Diffuse reflective
M=Mirror reflective
T=Through-beam
R=Red light (PG series)
G=Green light (PG series)
W=White light (PG series)

SENSING DIRECTION
None=Vertical
H=Horizontal

Product is subject to change without notice.
<table>
<thead>
<tr>
<th>SERIES</th>
<th>SENSING DISTANCE</th>
<th>DC/VOLTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-40D series</td>
<td>40cm</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PS-300M-H series</td>
<td>3m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PS-2000T-H series</td>
<td>3m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PS-10D series</td>
<td>10cm</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PS-30D series</td>
<td>3m</td>
<td>10 ~ 30V</td>
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<tr>
<td>PS-300M series</td>
<td>3m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PS-2000T series</td>
<td>3m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PF-100D-R series</td>
<td>20m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PF-300M-R series</td>
<td>5m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PF-500M-R series</td>
<td>5m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PF-700M-R series</td>
<td>5m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PF-1000T-R series</td>
<td>5m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PF-2000T-R series</td>
<td>5m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>PT-15D series</td>
<td>15m</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>FH-05T series</td>
<td>5cm</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>FH-15T series</td>
<td>5cm</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>FS-01D series</td>
<td>5cm</td>
<td>10 ~ 30V</td>
</tr>
<tr>
<td>FS-04D series</td>
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<td>10 ~ 30V</td>
</tr>
<tr>
<td>FH-04D series</td>
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<td>10 ~ 30V</td>
</tr>
<tr>
<td>AU-F01</td>
<td>5cm</td>
<td>DC 12 ~ 24V</td>
</tr>
<tr>
<td>AU-F02</td>
<td>5cm</td>
<td>DC 12 ~ 24V</td>
</tr>
<tr>
<td>PM-10D series</td>
<td>5cm</td>
<td>DC 10 ~ 30V</td>
</tr>
<tr>
<td>PM-40D series</td>
<td>5cm</td>
<td>DC 10 ~ 30V</td>
</tr>
</tbody>
</table>
### CONNECTION:

#### PS, PT series
- **NPN type**
  - Brown: +, Black: N.O., White: N.C., Blue: -
  - Load: 200mA, 10 ~ 30V DC
- **PNP type**
  - Brown: +, Black: N.C., White: N.O., Blue: -
  - Load: 200mA, 10 ~ 30V DC
- **Light source**
  - Brown: +, Blue: -
  - 10 ~ 30V DC

#### PG, PQ series NPN type
- Brown: +, Black: N.O., Blue: -
- Load: 200mA, 10 ~ 30V DC

#### PG series PNP type
- Brown: +, Black: N.C., Blue: -
- Load: 200mA, 10 ~ 30V DC

#### PM series
- Brown: +, N.P.: -
- Load: 200mA, 10 ~ 30V DC

#### PF series
- **Diffuse reflective type**
  - Brown: +, Blue: 24-240V
  - Tc: Yellow, Tc: Black, Tb: Green

#### Mirror reflective type
- Brown: +, Blue: 24-240V
  - Tc: Yellow, Tc: Black, Tb: Green

#### Through-beam type
- Brown: +, Blue: 24-240V
  - Tc: Yellow, Tc: Black, Tb: Green
### DIMENSIONS : (mm)

**PS series**

**Horizontal type**

- Green LED
- Red LED
- \( \varphi 7.2 \) x 2M Cable

**Vertical type**

- Green LED
- Red LED
- \( \varphi 4.7 \) x 2M Cable

**PT series**

- Sensitivity Adj.
- \( \varphi 5.5 \) x 2M Cable

**PF series**

- Sensitivity Adj.
- \( \varphi 4.7 \) x 2M Cable

**PG series**

- \( \varphi 3.2 \) x 2M Cable

**PQ series**

- \( \varphi 2.5 \) x 2M Cable

**PM series**

- \( \varphi 1.0 \) x 2M Cable

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**Reflector**

- AU-F01

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**FS series**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<tbody>
<tr>
<td>FS-05T</td>
<td>2.5</td>
<td>17</td>
<td>500</td>
<td>1.0</td>
<td>M3 x 0.5</td>
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<tr>
<td>FS-15T</td>
<td>3.2</td>
<td>17</td>
<td>500</td>
<td>2.2</td>
<td>M4 x 0.7</td>
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<td>FS-01D</td>
<td>2.5</td>
<td>17</td>
<td>500</td>
<td>1.0 x 2</td>
<td>M4 x 0.5</td>
<td>-</td>
</tr>
<tr>
<td>FS-04D</td>
<td>5.2</td>
<td>17</td>
<td>500</td>
<td>2.2 x 2</td>
<td>M6 x 0.75</td>
<td>-</td>
</tr>
<tr>
<td>FH-05T</td>
<td>2.5</td>
<td>17</td>
<td>500</td>
<td>1.0</td>
<td>M4 x 0.5</td>
<td>82</td>
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<tr>
<td>FH-15T</td>
<td>3.2</td>
<td>17</td>
<td>500</td>
<td>2.2</td>
<td>M4 x 0.7</td>
<td>40</td>
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<tr>
<td>FH-01D</td>
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<td>17</td>
<td>500</td>
<td>1.0 x 2</td>
<td>M4 x 0.5</td>
<td>85</td>
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<tr>
<td>FH-04D</td>
<td>5.2</td>
<td>17</td>
<td>500</td>
<td>2.2 x 2</td>
<td>M6 x 0.75</td>
<td>85</td>
</tr>
</tbody>
</table>

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**FH series**

<table>
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<tr>
<th>A</th>
<th>B</th>
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<th>D</th>
<th>E</th>
<th>F</th>
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