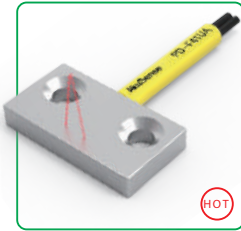
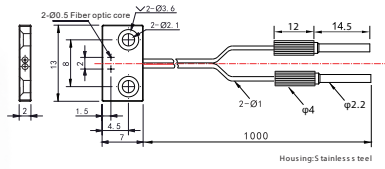


### Diffuse reflection

#### PD-F41UA

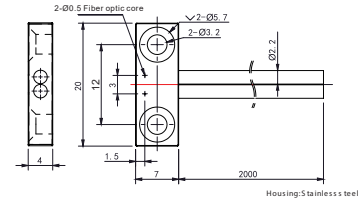


**HOT**



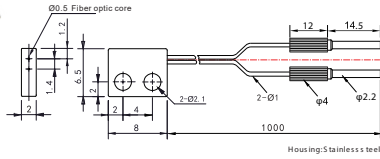
Sensing distance: PC1:80mm PG1:30mm  
Minimum bending radius: R 2  
Min- size D detected object:  $\phi 0.05$ mm

#### PD-F42UA



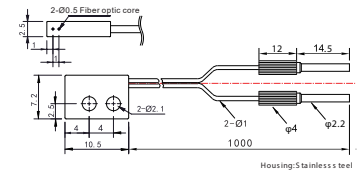
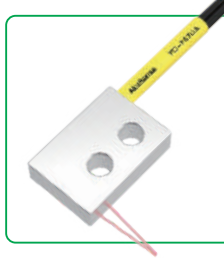
Sensing distance: PC1:160mm PG1:120mm  
Minimum bending radius: R 2  
Min- size D detected object:  $\phi 0.05$ mm

#### PD-F44UA



Sensing distance: PC1:120mm PG1:55mm  
Minimum bending radius: R 2  
Min- size D detected object:  $\phi 0.05$ mm

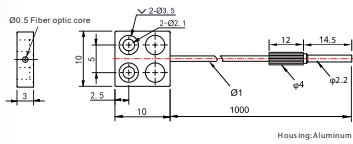
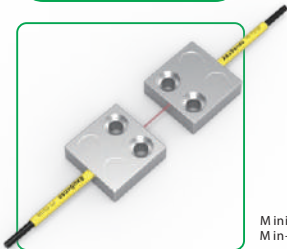
#### PD-F47UA



Sensing distance: PC1:80mm PG1:25mm  
Minimum bending radius: R 2  
Min- size D detected object:  $\phi 0.05$ mm

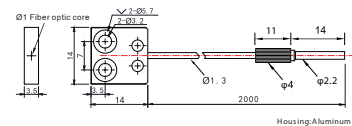
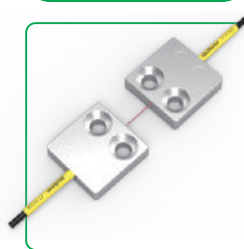
### Thru-beam

#### PT-F51UA



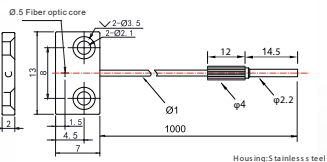
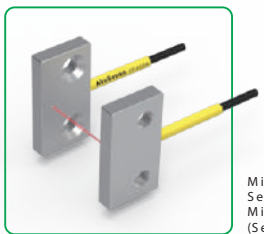
Sensing distance: PC1:400mm PG1:130mm  
Minimum bending radius: R 2  
Min- size D detected object:  $\phi 0.05$ mm

#### PT-F52UA



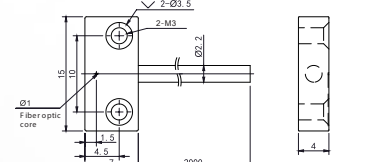
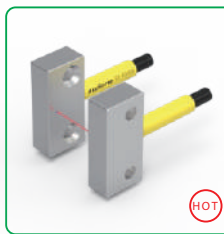
Sensing distance: 1900mm  
Minimum bending radius: R 2  
Min- size D detected object:  $\phi 0.05$ mm  
(Sensing distance varies with different amplifiers)

#### PT-F53UA



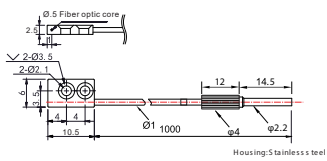
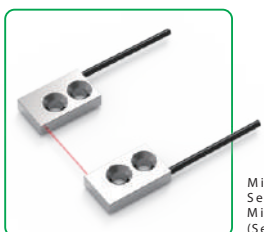
Sensing distance: PC1:210mm PG1:80mm  
Minimum bending radius: R 2  
Sensing distance: 340mm  
Min- size D detected object:  $\phi 0.05$ mm  
(Sensing distance varies with different amplifiers)

#### PT-F54UA



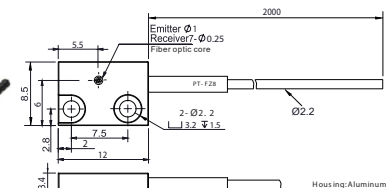
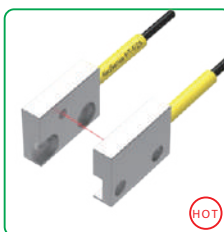
Sensing distance: PC1:1300mm PG1:450mm  
Minimum bending radius: R 2  
Min- size D detected object:  $\phi 0.05$ mm

#### PT-F57UA



Sensing distance: PC1:100mm PG1:400mm  
Minimum bending radius: R 2  
Sensing distance: 480mm  
Min- size D detected object:  $\phi 0.05$ mm  
(Sensing distance varies with different amplifiers)

#### PT-FZ8



Sensing distance: 1200mm  
Minimum bending radius: R 15  
Min- size D detected object:  $\phi 0.1$ mm  
(Sensing distance varies with different amplifiers)

Fiber Optic

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Vision
- Vibration
- Temperature

#### Guidance

- Fiber amplifiers
- Standard economic
- High stability type
- High performance  $\Phi 0$
- High speed respon

#### Fiber components

- Popular type
- Array-type
- Flat bracket type**
- Side-view type
- High elastic type
- High temperature resistant
- Small spot type
- Combination type
- High end type

- Fiber lens
- Fiber lens