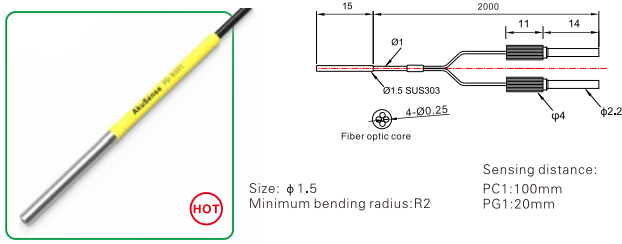


Diffuse reflection

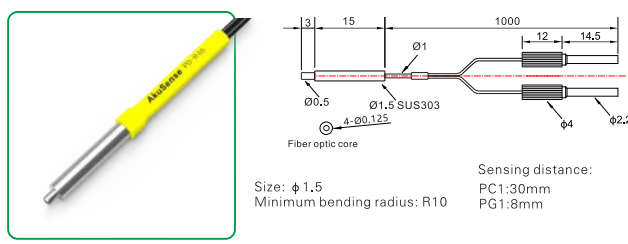
### PD-R49Y



Size:  $\phi 1.5$   
Minimum bending radius: R2

Sensing distance:  
PC1:100mm  
PG1:20mm

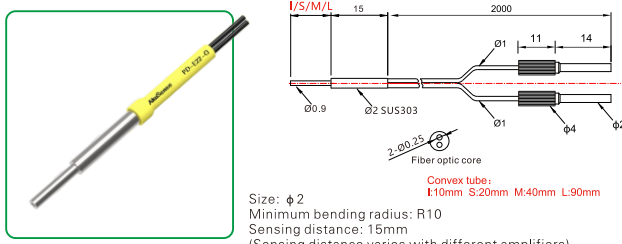
### PD-R46



Size:  $\phi 1.5$   
Minimum bending radius: R10

Sensing distance:  
PC1:30mm  
PG1:3mm

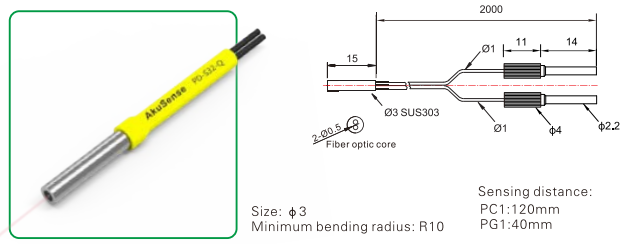
### PD-E22-Q-I/S/M/L



Size:  $\phi 2$   
Minimum bending radius: R10  
Sensing distance: 15mm  
(Sensing distance varies with different amplifiers)

Convex tube:  
L:10mm S:20mm M:40mm L:90mm

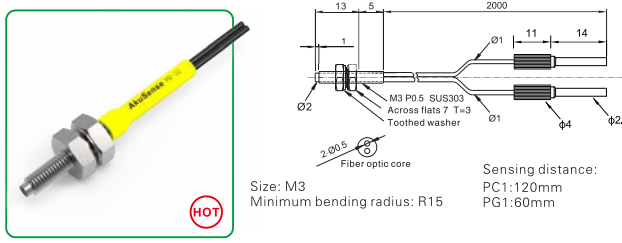
### PD-S32-Q



Size:  $\phi 3$   
Minimum bending radius: R10

Sensing distance:  
PC1:120mm  
PG1:40mm

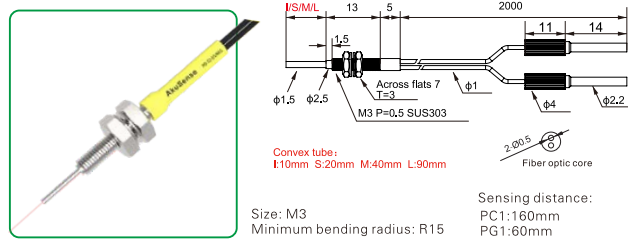
### PD-32



Size: M3  
Minimum bending radius: R15

Sensing distance:  
PC1:120mm  
PG1:60mm

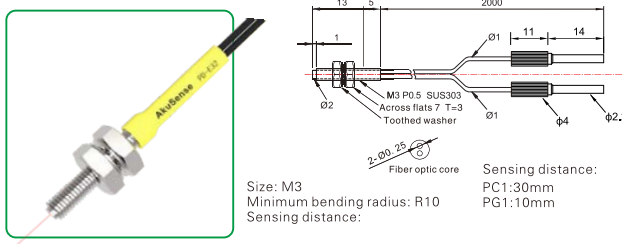
### PD-32-I/S/M/L



Size: M3  
Minimum bending radius: R15

Sensing distance:  
PC1:160mm  
PG1:60mm

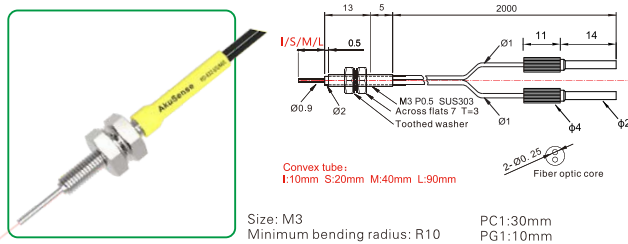
### PD-E32



Size: M3  
Minimum bending radius: R10  
Sensing distance:

Sensing distance:  
PC1:30mm  
PG1:10mm

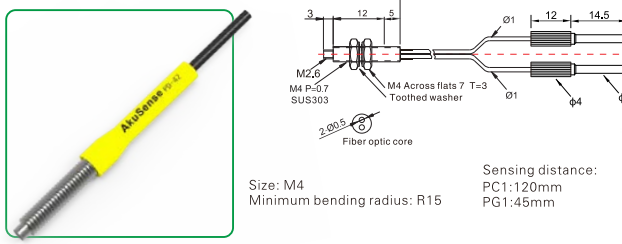
### PD-E32-I/S/M/L



Size: M3  
Minimum bending radius: R10

PC1:30mm  
PG1:10mm

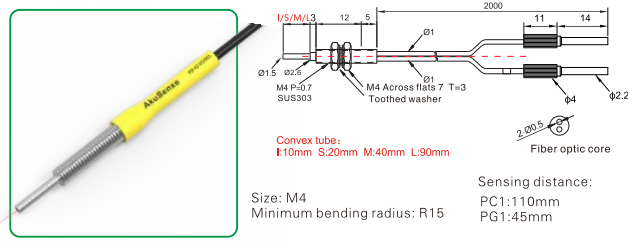
### PD-42



Size: M4  
Minimum bending radius: R15

Sensing distance:  
PC1:120mm  
PG1:45mm

### PD-42-I/S/M/L



Size: M4  
Minimum bending radius: R15

Sensing distance:  
PC1:110mm  
PG1:45mm

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

Guidance
Fiber amplifiers
Standard economical
High stability
High performance type
High speed response

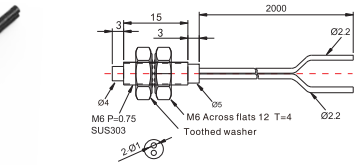
Fiber components
Popular type
Array-type
Flat bracket type
Side-view type
High elastic type
High temperature resistant
Small spot type
Combination type
High end type

Fiber lens
Fiber lens

\*PG1: TEGA with a threshold setting of 200;  
PC1: 7-step with a threshold setting of 200.  
\*Cable length listed above can be customized.

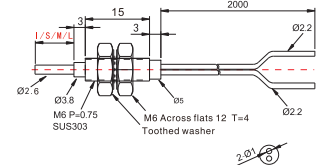
**Diffuse reflection**

**PD-62**



Size: M6  
Minimum bending radius: R25  
Sensing distance: PC1:350mm  
PG1:150mm

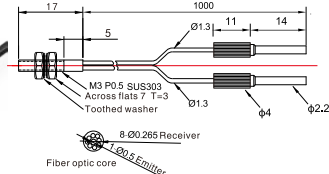
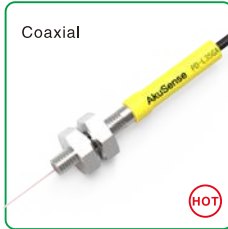
**PD-62-I/S/M/L**



Convex tube:  
I:10mm S:20mm M:40mm L:90mm  
Size: M6  
Minimum bending radius: R25  
Sensing distance: PC1:350mm  
PG1:150mm

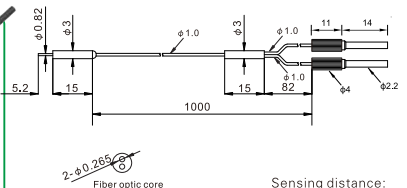
**PD-L35GA**

Coaxial



Size: M3  
Minimum bending radius: R2  
Sensing distance: PC1:200mm  
PG1:85mm

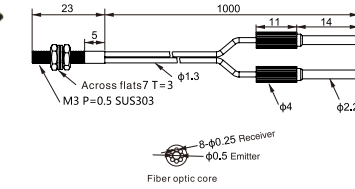
**PD-G45Y**



Size: Ø 0.82/3  
Minimum bending radius: R4  
Sensing distance: PC1:30mm  
PG1:10mm

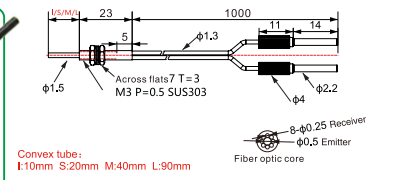
**PD-C310-35FA**

Coaxial



Size: M3  
Minimum bending radius: R15  
Sensing distance: PC1:220mm  
PG1:90mm

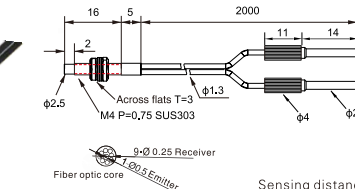
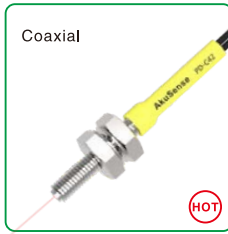
**PD-C310-35FA-I/S/M/L**



Convex tube:  
I:10mm S:20mm M:40mm L:90mm  
Size: M3  
Minimum bending radius: R15  
Sensing distance: PC1:200mm  
PG1:70mm

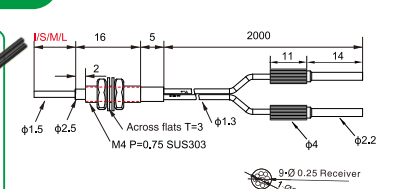
**PD-C42**

Coaxial



Size: M4  
Minimum bending radius: R15  
Sensing distance: PC1:180mm  
PG1:60mm

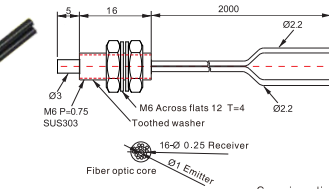
**PD-C42-I/S/M/L**



Convex tube:  
I:10mm S:20mm M:40mm L:90mm  
Size: M4  
Minimum bending radius: R15  
Sensing distance: PC1:220mm  
PG1:85mm

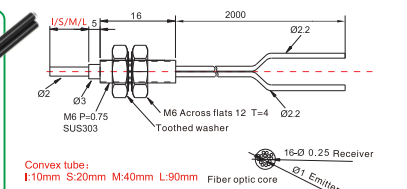
**PD-C62**

Coaxial



Size: M6  
Minimum bending radius: R25  
Sensing distance: PC1:350mm  
PG1:150mm

**PD-C62-I/S/M/L**



Convex tube:  
I:10mm S:20mm M:40mm L:90mm  
Size: M6  
Minimum bending radius: R25  
Sensing distance: 90mm  
(Sensing distance varies with different amplifiers)

\*PG1: TEGA with a threshold setting of 200;  
PC1: 7-step with a threshold setting of 200.  
\*Cable length listed above can be customized.

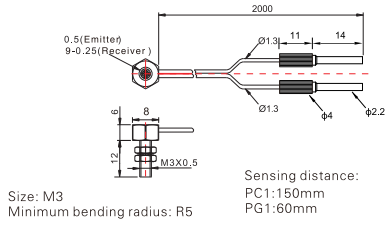
Diffuse reflection

PD-C32TZ

Coaxial



HOT

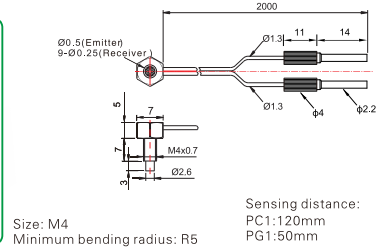


PD-C42TZ

Coaxial



HOT

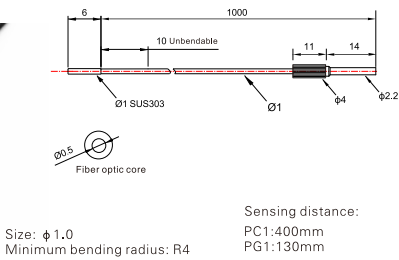


Thru-beam

PT-R58V



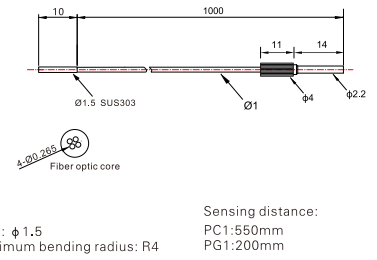
HOT



PT-R59



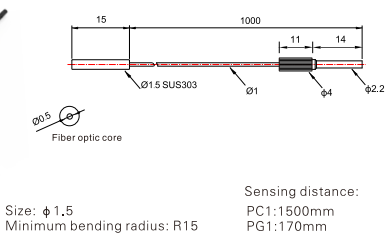
HOT



PT-S1520-Q



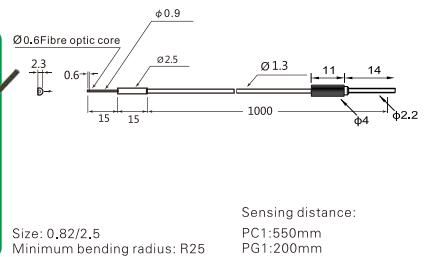
HOT



PT-G32



HOT



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

- Guidance
- Fiber amplifiers
- Standard economical
- High stability
- High performance type
- High speed response

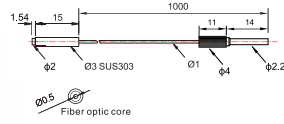
- Fiber components
- Popular type
- Array-type
- Flat bracket type
- Side-view type
- High elastic type
- High temperature resistant
- Small spot type
- Combination type
- High end type

- Fiber lens
- Fiber lens

\*PG1: TEGA with a threshold setting of 200;  
 \*PC1: 7-step with a threshold setting of 200.  
 \*Cable length listed above can be customized.

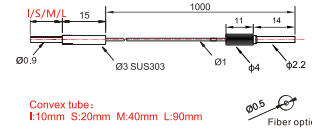
**Thru-beam**

**PT-S31-Q**



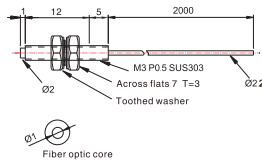
Size:  $\phi 3$   
 Minimum bending radius: R15  
 Sensing distance: 140mm  
 (Sensing distance varies with different amplifiers)

**PT-S31-Q-I/S/M/L**



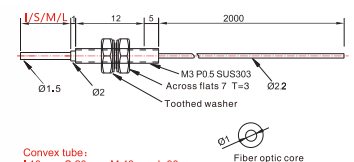
Convex tube:  
 I:10mm S:20mm M:40mm L:90mm  
 Size:  $\phi 3$   
 Minimum bending radius: R15  
 Sensing distance:  
 PC1:1000mm  
 PG1:180mm

**PT-32**



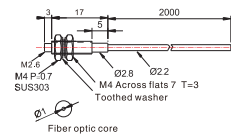
Size: M3  
 Minimum bending radius: R25  
 Sensing distance:  
 PC1:1900mm  
 PG1:600mm

**PT-32-I/S/M/L**



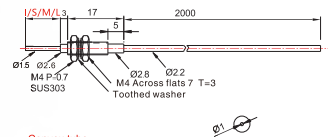
Convex tube:  
 I:10mm S:20mm M:40mm L:90mm  
 Size: M3  
 Minimum bending radius: R25  
 Sensing distance:  
 PC1:1900mm  
 PG1:700mm

**PT-42**



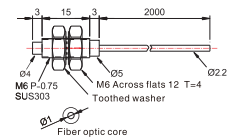
Size: M4  
 Minimum bending radius: R25  
 Sensing distance: 500mm  
 (Sensing distance varies with different amplifiers)

**PT-42-I/S/M/L**



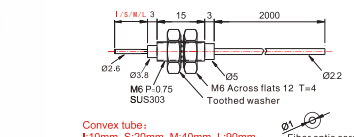
Convex tube:  
 I:10mm S:20mm M:40mm L:90mm  
 Size: M4  
 Minimum bending radius: R25  
 Sensing distance:  
 PC1:1800mm  
 PG1:400mm

**PT-62**



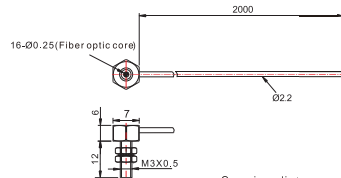
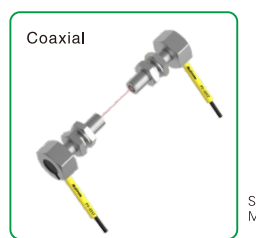
Size: M6  
 Minimum bending radius: R25  
 Sensing distance: 1500mm  
 (Sensing distance varies with different amplifiers)

**PT-62-I/S/M/L**



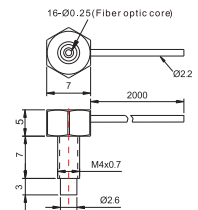
Convex tube:  
 I:10mm S:20mm M:40mm L:90mm  
 Size: M6  
 Minimum bending radius: R25  
 Sensing distance:  
 PC1:4000mm  
 PG1:600mm

**PT-C32TZ**



Size: M3  
 Minimum bending radius: R5  
 Sensing distance:  
 PC1:1300mm  
 PG1:500mm

**PT-C42TZ**



Size: M4  
 Minimum bending radius: R15  
 Sensing distance:  
 PC1:1500mm  
 PG1:600mm

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

- Fiber amplifiers**
- Standard economical
  - High stability
  - High performance type
  - High speed response

- 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

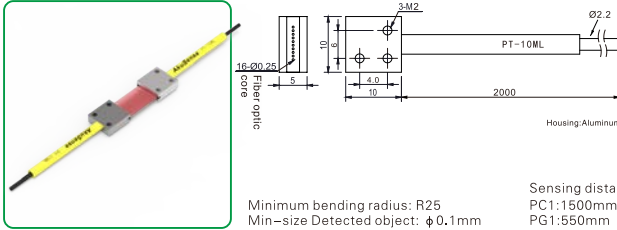
- Fiber lens**
- Fiber lens

\*PG1: TEGA with a threshold setting of 200;  
 PC1: 7—step with a threshold setting of 200.  
 \*Cable length listed above can be customized.



Thru-beam

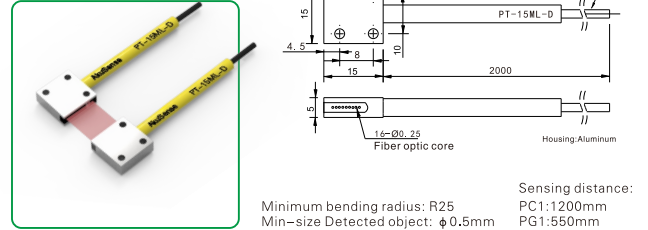
PT-10ML



Technical drawing showing dimensions: 16-Ø0.25 Fiber optic core, 3-M2, 11, 4.0, 19, 2000, Ø2.2, Housing: Aluminum.

Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 0.1mm  
 Sensing distance:  
 PC1:1500mm  
 PG1:550mm

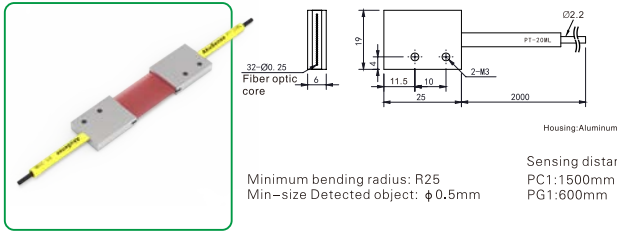
PT-15ML-D



Technical drawing showing dimensions: 3-M3, 12, 4.5, 8, 15, 2000, Ø2.2, 1.6-Ø0.25 Fiber optic core, Housing: Aluminum.

Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 0.5mm  
 Sensing distance:  
 PC1:1200mm  
 PG1:550mm

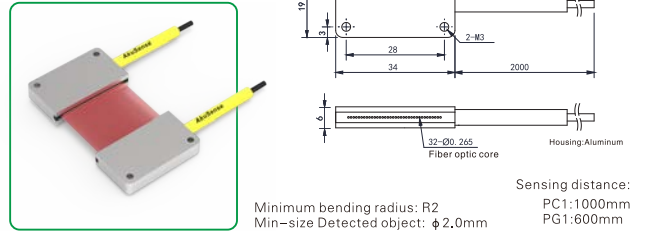
PT-20ML



Technical drawing showing dimensions: 32-Ø0.25 Fiber optic core, 6, 11, 11.5, 10, 25, 2000, Ø2.2, 2-M3, Housing: Aluminum.

Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 0.5mm  
 Sensing distance:  
 PC1:1500mm  
 PG1:600mm

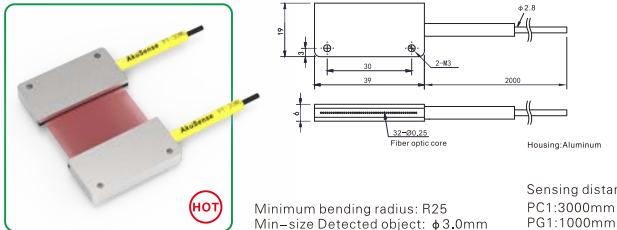
PT-25ML



Technical drawing showing dimensions: 12, 10, 28, 34, 2000, Ø2.2, 2-M3, 32-Ø0.265 Fiber optic core, Housing: Aluminum.

Minimum bending radius: R2  
 Min-size Detected object:  $\phi$ 2.0mm  
 Sensing distance:  
 PC1:1000mm  
 PG1:600mm

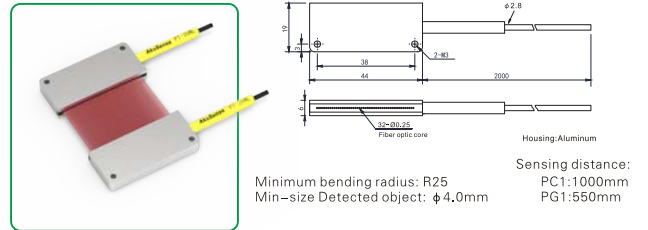
PT-30ML



Technical drawing showing dimensions: 12, 10, 30, 39, 2000,  $\phi$ 2.8, 2-M3, 32-Ø0.265 Fiber optic core, Housing: Aluminum.

**(HOT)**  
 Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 3.0mm  
 Sensing distance:  
 PC1:3000mm  
 PG1:1000mm

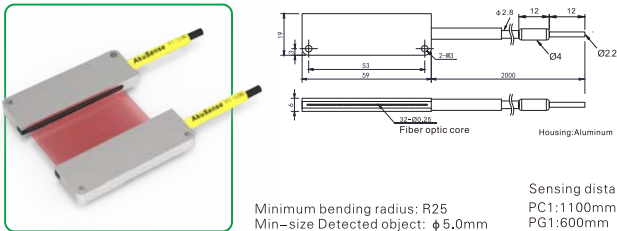
PT-35ML



Technical drawing showing dimensions: 12, 10, 38, 44, 2000,  $\phi$ 2.8, 2-M3, 32-Ø0.25 Fiber optic core, Housing: Aluminum.

Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 4.0mm  
 Sensing distance:  
 PC1:1000mm  
 PG1:550mm

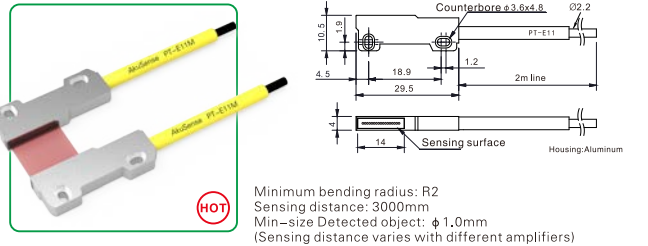
PT-50ML



Technical drawing showing dimensions: 12, 53, 59, 2000,  $\phi$ 2.8, 2-M3, Ø4, Ø2.2, Fiber optic core, Housing: Aluminum.

Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 5.0mm  
 Sensing distance:  
 PC1:1100mm  
 PG1:600mm

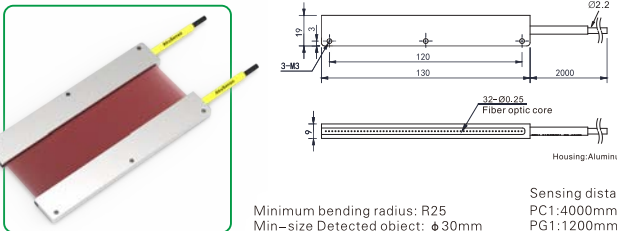
PT-E11M



Technical drawing showing dimensions: 10.5, 1.5, 4.5, 18.9, 1.2, 29.5, 2m line, Ø2.2, Bottom hole  $\phi$ 2.1x3.5 Counterbore  $\phi$ 3.6x4.6, 2-M3, Sensing surface, Housing: Aluminum.

**(HOT)**  
 Minimum bending radius: R2  
 Sensing distance: 3000mm  
 Min-size Detected object:  $\phi$ 1.0mm  
 (Sensing distance varies with different amplifiers)

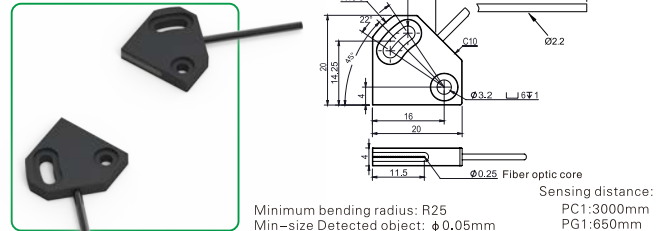
PT-120ML



Technical drawing showing dimensions: 12, 120, 130, 2000, Ø2.2, 3-M3, 32-Ø0.25 Fiber optic core, Housing: Aluminum.

Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 30mm  
 Sensing distance:  
 PC1:4000mm  
 PG1:1200mm

PT-A10



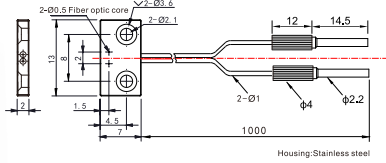
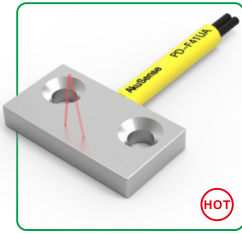
Technical drawing showing dimensions: 2000, R19.5, 20, 13.5, 16, 20, 11.5, Ø3.2 L15x1, Ø2.2, C10, Ø3.2 L15x1, Ø0.25 Fiber optic core, Sensing distance:  
 PC1:3000mm  
 PG1:650mm

Minimum bending radius: R25  
 Min-size Detected object:  $\phi$ 0.05mm

\*PG1: TEGA with a threshold setting of 200;  
 PC1: 7-step with a threshold setting of 200.  
 \*Cable length listed above can be customized.

**Diffuse reflection**

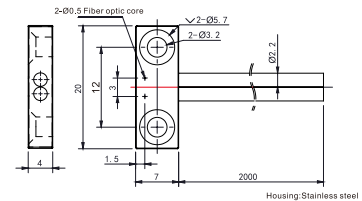
**PD-F41UA**



Housing:Stainless steel  
Sensing distance:  
Minimum bending radius: R2 PC1:80mm  
Min-size Detected object:  $\phi$ 0.05mm PG1:30mm

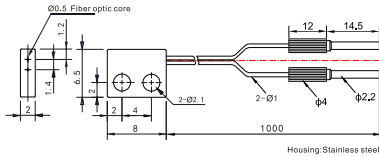
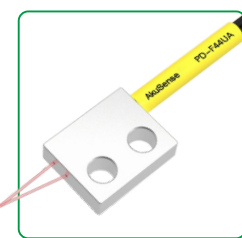


**PD-F42UA**



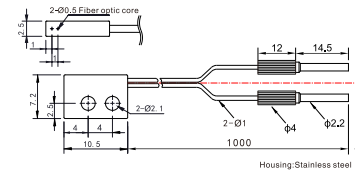
Housing:Stainless steel  
Sensing distance:  
Minimum bending radius: R2 PC1:160mm  
Min-size Detected object:  $\phi$ 0.05mm PG1:120mm

**PD-F44UA**



Housing:Stainless steel  
Sensing distance:  
Minimum bending radius: R2 PC1:120mm  
Min-size Detected object:  $\phi$ 0.05mm PG1:55mm

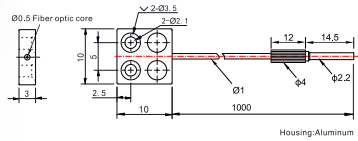
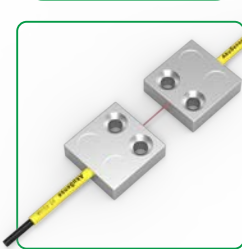
**PD-F47UA**



Housing:Stainless steel  
Sensing distance:  
Minimum bending radius: R2 PC1:80mm  
Min-size Detected object:  $\phi$ 0.05mm PG1:25mm

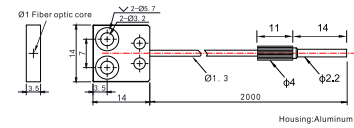
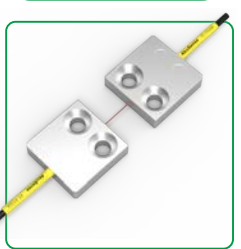
**Thru-beam**

**PT-F51UA**



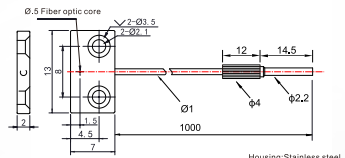
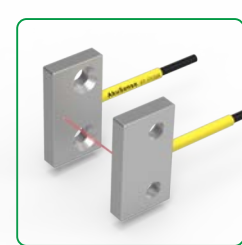
Housing:Aluminum  
Sensing distance:  
Minimum bending radius: R2 PC1:400mm  
Min-size Detected object:  $\phi$ 0.05mm PG1:130mm

**PT-F52UA**



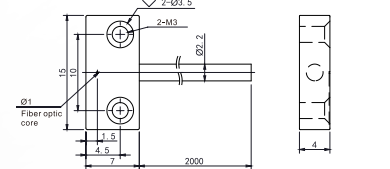
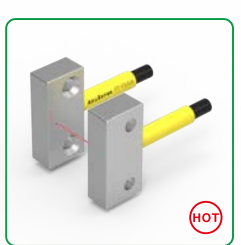
Housing:Aluminum  
Sensing distance: 1900mm  
Minimum bending radius: R2  
Min-size Detected object:  $\phi$ 0.05mm  
(Sensing distance varies with different amplifiers)

**PT-F53UA**



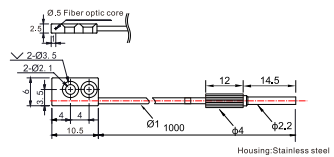
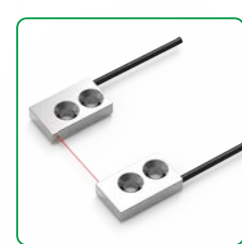
Housing:Stainless steel  
Sensing distance:  
Minimum bending radius: R2 PC1:210mm  
Sensing distance: 340mm  
Min-size Detected object:  $\phi$ 0.05mm  
(Sensing distance varies with different amplifiers)

**PT-F54UA**



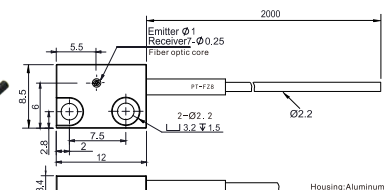
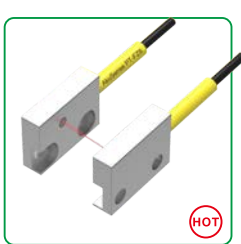
Housing:Stainless steel  
Sensing distance:  
Minimum bending radius: R2 PC1:1300mm  
Min-size Detected object:  $\phi$ 0.05mm PG1:450mm

**PT-F57UA**



Housing:Stainless steel  
Sensing distance:  
Minimum bending radius: R2 PC1:400mm  
Sensing distance: 480mm  
Min-size Detected object:  $\phi$ 0.05mm  
(Sensing distance varies with different amplifiers)

**PT-FZ8**



Housing:Aluminum  
Sensing distance:  
Minimum bending radius: R15  
Sensing distance: 120mm  
Min-size Detected object:  $\phi$ 0.1mm  
(Sensing distance varies with different amplifiers)

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Vibration

Temperature

Annexes

Guidance

Fiber amplifiers

Standard economical

High stability

High performance type

High speed response

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

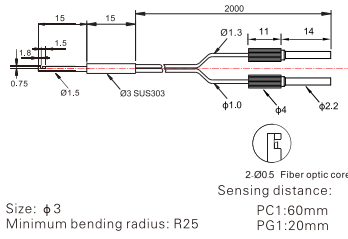
Fiber lens

Fiber lens

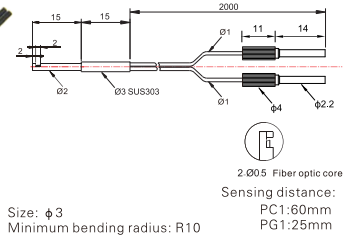
\*PG1: TEGA with a threshold setting of 200;  
PC1: 7-step with a threshold setting of 200.  
\*Cable length listed above can be customized.

## Diffuse reflection

### PD-32-DQ

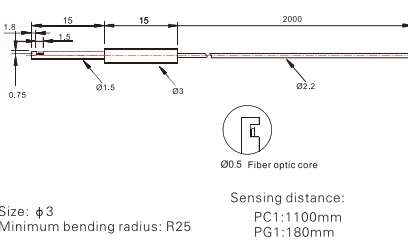


### PD-32-SQ

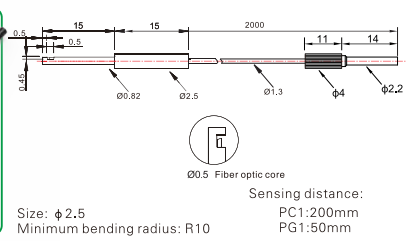


## Thru-beam

### PT-32-DQ



### PT-32-SQ



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Vision

Vibration

Temperature

Annexes

Guidance

Fiber amplifiers

Standard economical

High stability

High performance type

High speed response

Color sensor

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

\*PG1: TEGA with a threshold setting of 200;  
PC1: 7-step with a threshold setting of 200.  
\*Cable length listed above can be customized.