

Fiber Optic Sensors



- The optical fiber amplifier comes with automatic light compensation technology to effectively ensure the stability of detection
- Complete specifications of optical fiber components, perfect realization of the full range of replacement of mainstream models in the market
- Customized development can be carried out according to the user's on-site needs
- Abundant inventory, quick response and fast delivery



PG1 Dual Digital Display Fiber Optic Amplifier

- With automatic light compensation technology, 4-channel anti-light interference
- Small hysteresis, dual output selectable, the fastest speed up to 13 μ s

P.A-04



PG5 High Stability Dual Digital Display Fiber Amplifier

- APC Compensation function, high stability performance
- With AI function, automatically configure the most suitable luminous intensity
- Coded menu: greatly reduce the cost of use and maintenance

P.A-05



PB1 High Performance Dual Digital Fiber Amplifier

- Button design conforms to ergonomics
- Visible bright LED, easy settings
- Seletable NPN/PNP output

P.A-06



PC1 Ultra High Speed Response Dual Digital Display Fiber Optic Amplifier

- Fastest response time in the industry (15ms)
- Digital display of red and green light in comparison, easy installation
- Unique technology for light compensation, stable detection

P.A-07

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 flexible type

High temperature resistant

Small spot type

Combination type

High end type

Fiber lens

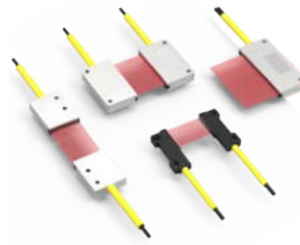
Fiber lens



Popular Type

- Imported fiber optic core, wonderful performance
- Long sensing distance, cost-effective

P.A-08



Array-type

- Suitable for moving objects detection
- Can detect unclear position objects

P.A-12



Flat Bracket Type

- Flexible installation, easy to be fixed
- Fits into limited space

P.A-14



Side-view Type

- Can detect objects in narrow space
- Easily access to detectable objects, high precision

P.A-15



High Elasticity Type

- Good performance with excellent flexibility
- After bending at angles of 90 degree, transmission ability only reduces 10%

P.A-16



High Temperature Resistant Type

- Heat resistant stainless steel outer casing, strong chemical resistance
- Can stand maximum temperature of 350°

P.A-17



Small Spot Type

- Built-in lens, small beam spot
- Customizable high-flex optical fiber cables

P.A-18



Combination Type

- Several fiber units combined together
- Customizable fiber length to tail your needs

P.A-19



High End Type

- Pioneering hot melt leveling technology
- Metal sleeve cover type protective sleeve design

P.A-20



Lens

- Offers a complete series of specifications; can replace most of the popular products in the market
- Both thru-beam and diffuse reflective model for you to choose from

P.A-20

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Fiber lens
Fiber lens

PG1 Dual Digital Display Fiber Optic Amplifier

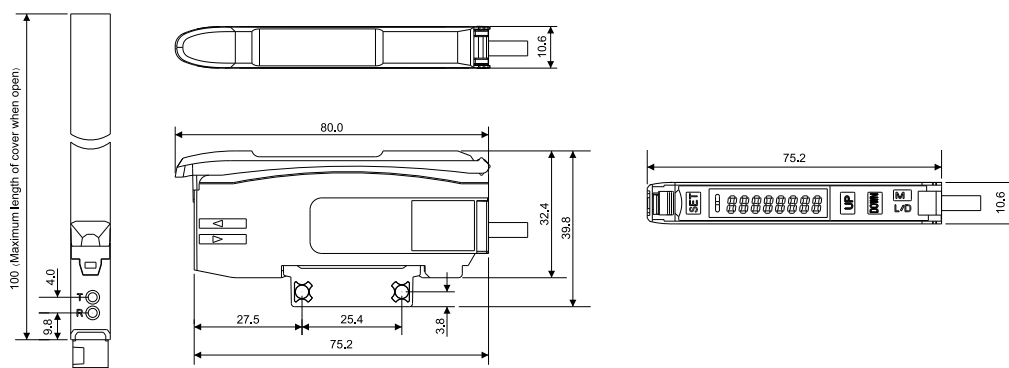
- With automatic light compensation technology, 4-channel anti-light interference
- Small hysteresis, dual output selectable, the fastest speed upto 13 μ s



Model No.	PG1-N HOT	PG1-P
Control output	1 output port	
Light source	Red, 4-element LED	
Response time	SHP: 13 μ s, FINE: 30 μ s, SUPR: 100 μ s, MEGA: 200 μ s	
Output selection	LIGHT-ON/DARK-ON (Short press MODE and select with UP DOWN)	
Display indicator	Operation indicator: Red LED, dual digital monitor: Dual 7-digit display, threshold (4-digit green LED body indicator) and current value (4-digit red LED body indicator) lit together. Current value range: 0-9999	
Detection method	Light intensity (area detection is available for automatic sensitive tracking)	
Delay function	1ms~9999ms	
Control output	NPN open collector, maximum 100mA, residual voltage: 1V	PNP open collector, maximum 100mA, residual voltage: 1V
Power supply	12~24V DC ± 10%	
Ambient illuminance	Incandescent lamp ≤ 20,000 lux, Sunlight ≤ 30000 Lux	
Power consumption	Standard mode: Max 300mW	
Vibration resistance	10~55Hz, double amplitude: 1.5mm, X, Y, Z axis are 2 hours respectively	
Ambient temperature	-10°C~+55°C, No freezing	

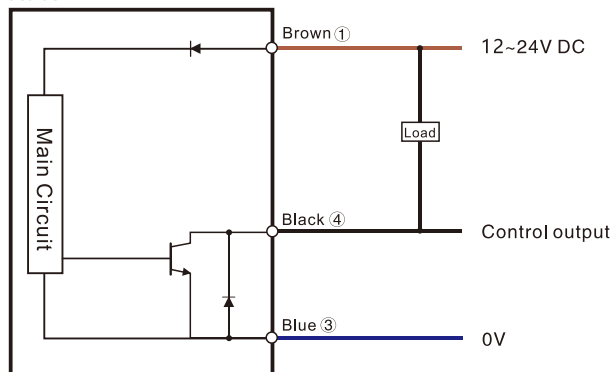
Dimensions

Unit: mm

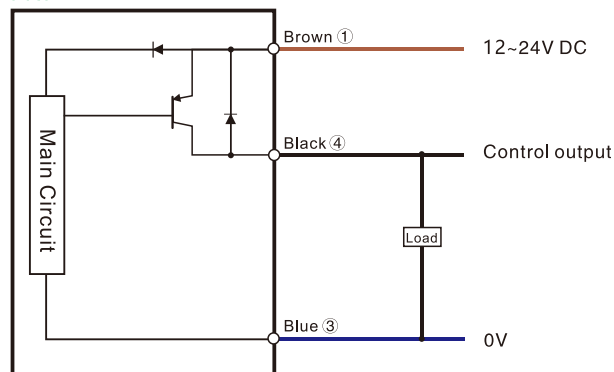


Circuit diagram

NPN



PNP



Fiber Optic

- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
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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

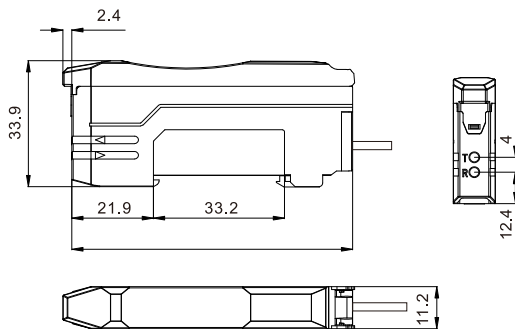
PG5 Highly Stable Dual Digital Display Fiber Amplifier

- APC compensation function, high stability
- With AI function, automatically configure the most suitable luminous intensity
- Coded menu: greatly reduce the cost of use and maintenance;



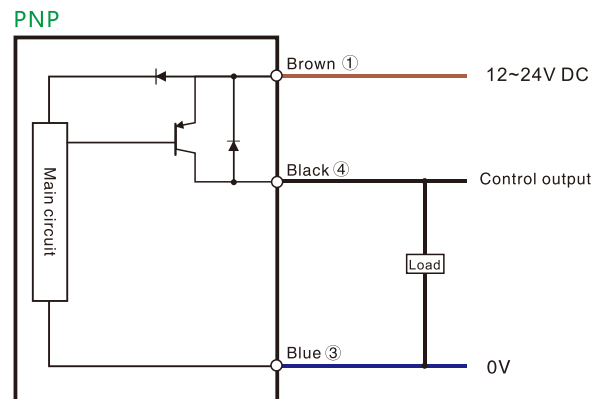
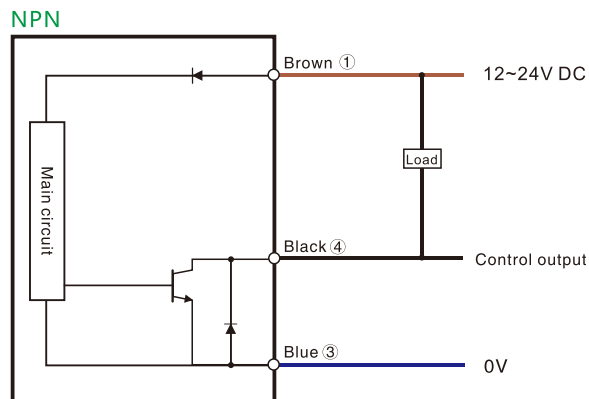
Model No.	PG5-N	PG5-P
light source	Red LED (wavelength 630nm)	
Reaction time	50μs (P100) 、 250μs (P101) 、 500μs (P102) 、 1ms (P103) 、	
Output method	Normally open and normally closed: L. on, D. on	
Protect the circuit	Power supply reverse connection protection, output surge protection, output reverse connection protection, output overcurrent protection, output ESD protection	
Timer function	Output off timing, output on timing, output single timing, output timing off	
Control output	Applied voltage: 30V DC or less (between detection output and 0V) Maximum output current: 100mA; residual voltage: below 2V	Applied voltage: below 30V DC (between detection output and +0V) Maximum output current: 100mA; residual voltage: below 2V
Delay function	Conventional: 900mW (at 24V, the maximum is 32mA; at 12V, the maximum is 47mA)	Conventional: 900mW (at 24V, the maximum is 36mA; at 12V, the maximum is 50mA)
Timing range	1-9999ms	
Utility function	Parameter initialization/key lock/threshold two points, automatic and manual setting, fast saturation attenuation	
Regional mode	Yes	
voltage	12-24VDC ± 10%	
Power consumption	20mA max	
Ambient luminosity	Incandescent lamp: maximum 20000lux, sunlight: maximum 30000lux	
Ambient temperature	-10°C~+55°C, no freezing	
Environment humidity	35~85% RH	
Vibration resistance	10 To 55Hz, full width 1.5mm, X, Y, Z axis directions for 2 hours each	
Impact resistance	500m/s ² , 3 times each in X, Y, and Z axis directions	
Shell material	Polycarbonate	

Dimensions



Unit: mm

Circuit diagram



■ PB1 High Performance Dual Digital Fiber Amplifier

- Infrared communication function
- Regional mode
- 7-speed response time setting
- Novel and unique appearance



Model No.	PB1
Light source	Modulated red light 680nm
Operating voltage	8~30V DC
Saturation voltage	25mA < 1.2V, 100mA < 2V
Load current	< 50mA
Output current	< 200mA
Leakage current	< 100uA
Output type	NPN/PNP open-collector
Switch type	Selectable L.on/D.on
Display screen	7 segment 8 digit display (red: 4 digit, green: 4 digit)
Response time	50 μ s/ 250 μ s/ 500 μ s/ 1ms/ 4ms
Time delay function	< 50ms
Operating temperature	-10°C~+60°C
Operating humidity	35%~85%RH
Ambient brightness	Sunlight ≤ 10000Lux
Protective circuit	Short circuit protection, Reverse polarity protection, Over voltage protection
Shock resistance	10G(1500m/s²), XYZ three directions
Anti-vibration	10~55Hz Double amplitude 1.5mm, XYZ three directions, 2 hours each
Certification	CE
Connection method	2m 4 wire cable
Weight	65g

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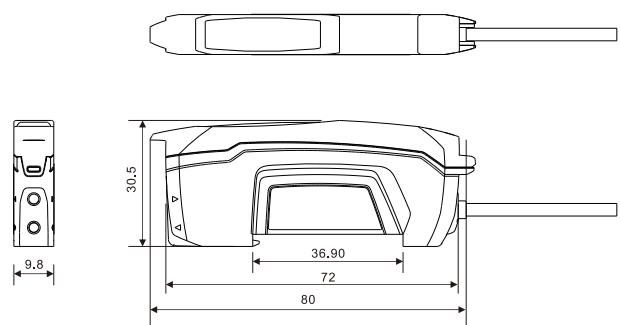
Guidance

- 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

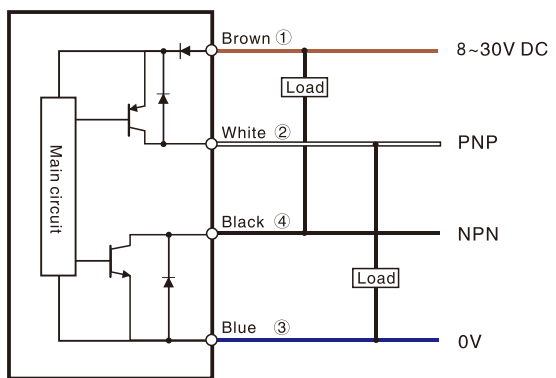
- Fiber lens**
- Fiber lens

Dimensions



Circuit diagram

NPN/PNP



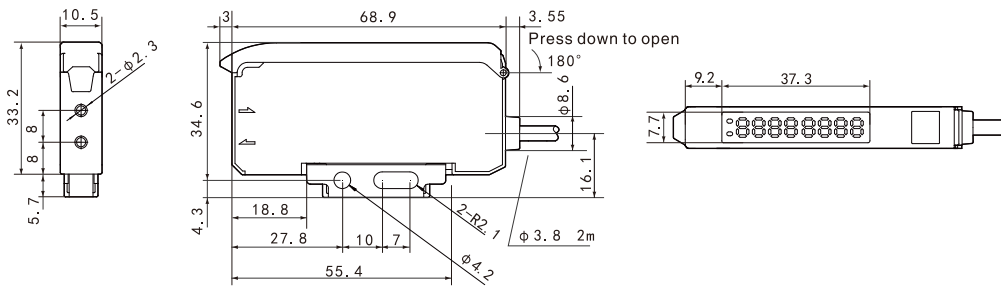
PC1 Ultra High Speed Response Dual Digital Display Fiber Amplifier

- Fastest response time in the industry (15ms)
- Digital display of red and green light in comparison, easy installation
- Unique technology for light compensation, stable detection



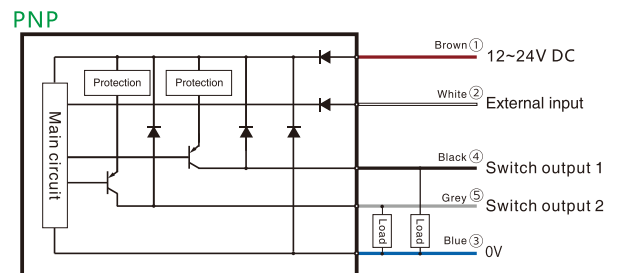
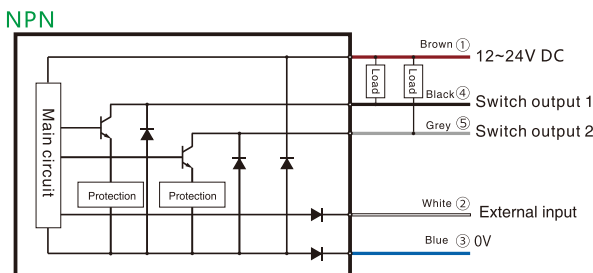
Model No.	PC1-NH	PC1-NH2	PC1-PH	PC1-PH2
Light source	Red LED 660nm			
Operating voltage	12~24V DC			
No-load supply current	Standard mode: 36mA max.(Single output), 39mA max.(Double output) Energy-saving mode: 25mA max.(Single output), 28mA max.(Double output)			
Output type	Single output NPN	Double output NPN	Single output PNP	Double output PNP
Switch type	≤100mA / 30V DC, Load current≤100mA, Voltage drop≤1.8V, Normally open (L.on), normally closed (D.on)			
Indicator	Selectable L.on, D.on			
Display screen	Single output indicator (Red), dual output indicator (Orange)			
Response time	7 segment 8 digit display (red: 4 digit, orange: 4 digit)			
ON/OFF Time delay function	15 μs(22us(1-HS)), 70 μs(2-FS), 250 μs(3-ST), 500 μs(4-LG), 1ms(5-PL), 2ms(6-UL), 8ms(7-EL)			
Sensing distance	Thru-beam: 4000mm, Diffuse reflection: 1200mm			
Sensitivity adjustment	ON delay, OFF delay, Single pulse output, ON + OFF delay, ON delay+Single pulse output 0.1~9.999ms			
External output function	Teach-in / Manual			
Operating temperature	Remote teach-in, Input stops once it shines, Syn trigger input, reset-input (for two outputs only)			
Operating humidity	-25°C~+55°C			
Ambient brightness	35%~85%RH			
Anti-vibration	Sunlight≤10000lux, Incandescent lamp≤3000lux			
Shock resistance	10~55Hz Double amplitude 1.5mm, XZY three directions, 2 hours each			
Degree of protection	50G(500m/S²), XYZ three directions			
Material	IP50			
Connection method	Shell: PPE, Display: PC			
Weight	2m 5 core cable			
	50g			

Dimensions



Unit: mm

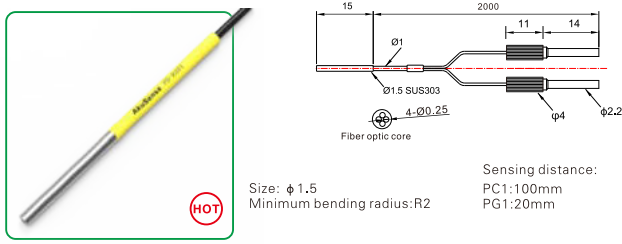
Circuit diagram



Diffuse reflection

Fiber Optic

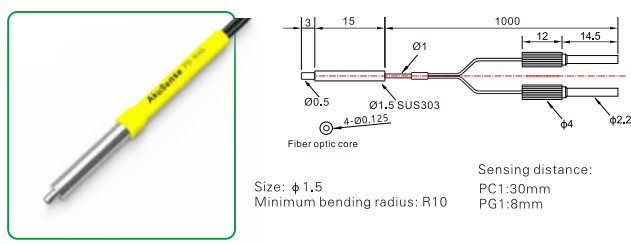
PD-R49Y



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

Sensing distance:
PC1:100mm
PG1:20mm

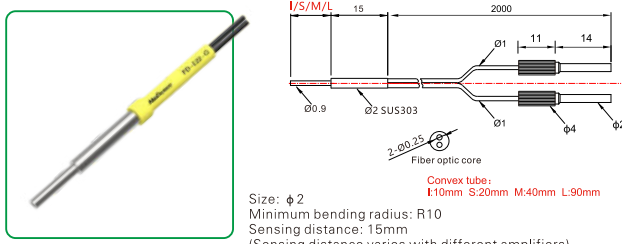
PD-R46



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

Sensing distance:
PC1:30mm
PG1:3mm

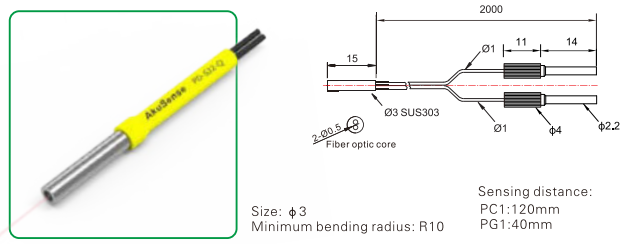
PD-E22-Q-I/S/M/L



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

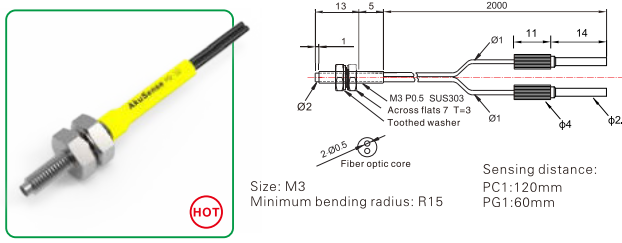
PD-S32-Q



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

Sensing distance:
PC1:120mm
PG1:40mm

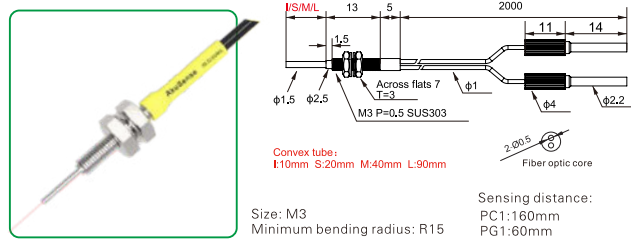
PD-32



Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:120mm
PG1:60mm

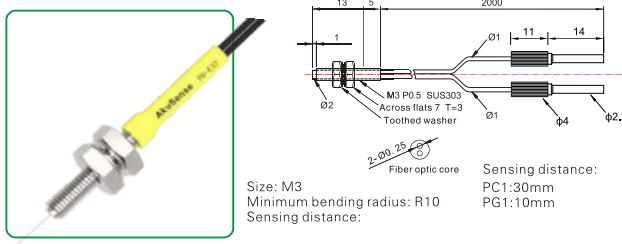
PD-32-I/S/M/L



Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:160mm
PG1:60mm

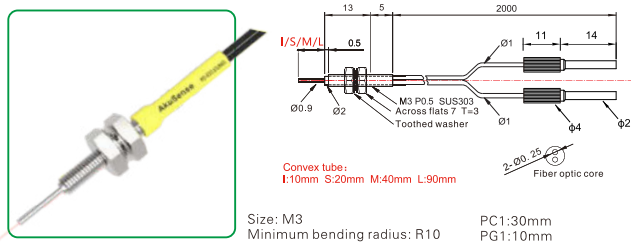
PD-E32



Size: M3
Minimum bending radius: R10
Sensing distance:

Sensing distance:
PC1:30mm
PG1:10mm

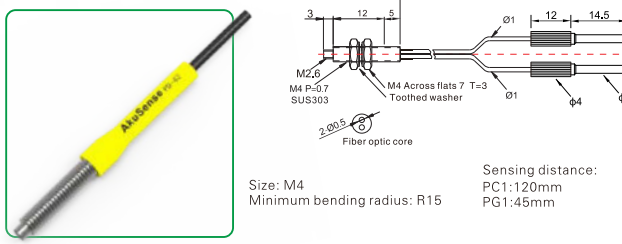
PD-E32-I/S/M/L



Size: M3
Minimum bending radius: R10

Sensing distance:
PC1:30mm
PG1:10mm

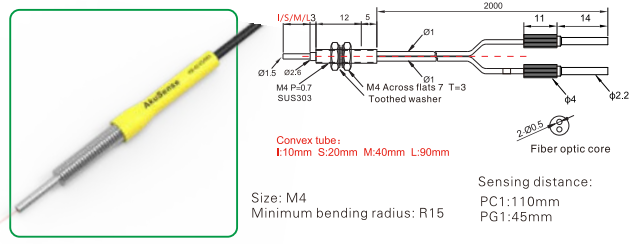
PD-42



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

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

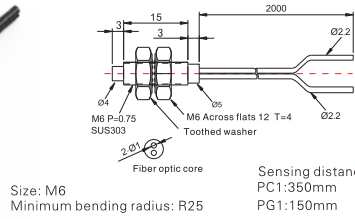
- Fiber components
- Popular type
 - Array-type
 - Flat bracket type
 - Side-view type
 - High elastic type
 - High temperature resistant
 - Small spot type
 - Combination type
 - High end type

- 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.

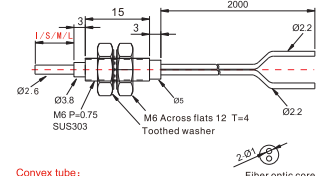
Diffuse reflection

PD-62



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

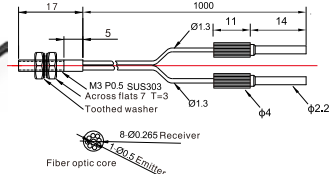
PD-62-I/S/M/L



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

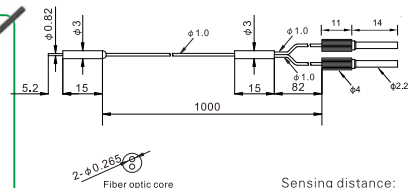
PD-L35GA

Coaxial



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

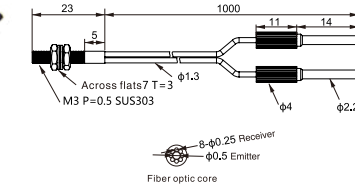
PD-G45Y



Size: $\phi 0.8/2.3$
Minimum bending radius: R4
Sensing distance: PC1:30mm
PG1:10mm

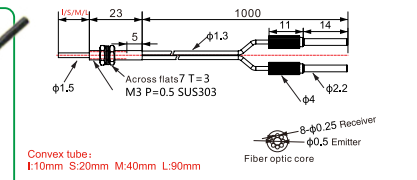
PD-C310-35FA

Coaxial



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

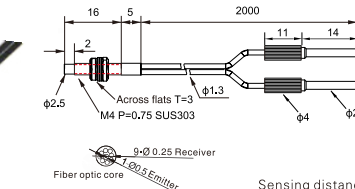
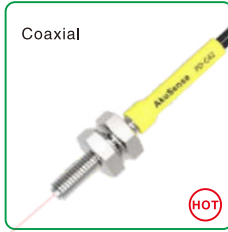
PD-C310-35FA-I/S/M/L



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

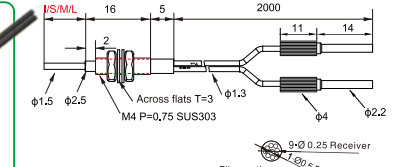
PD-C42

Coaxial



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

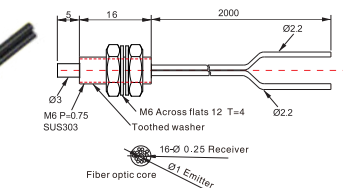
PD-C42-I/S/M/L



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

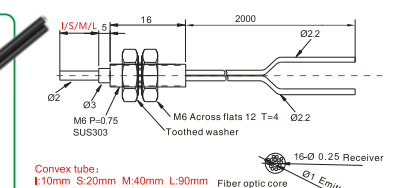
PD-C62

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.

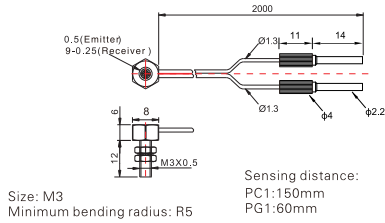
Diffuse reflection

PD-C32TZ

Coaxial

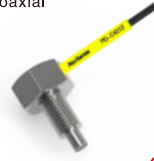


HOT

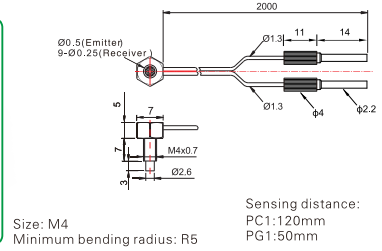


PD-C42TZ

Coaxial



HOT

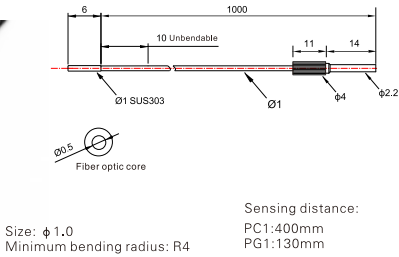


Thru-beam

PT-R58V



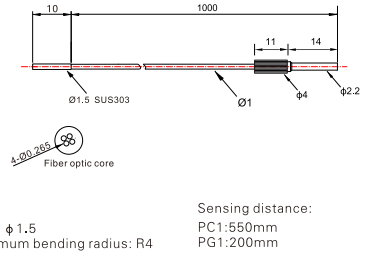
HOT



PT-R59



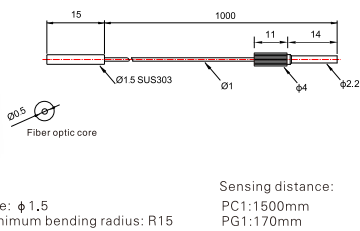
HOT



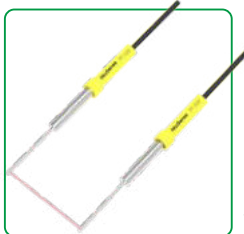
PT-S1520-Q



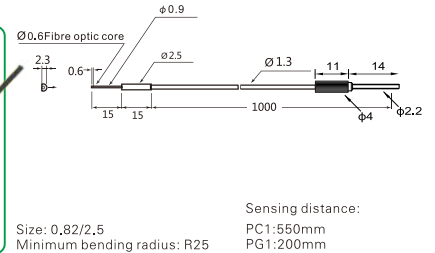
HOT



PT-G32



HOT



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- Annexes

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

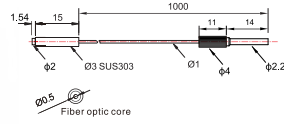
- Fiber components
- Popular type
- Array-type
- Flat bracket type
- Side-view type
- High elastic type
- High temperature resistant
- Small spot type
- Combination type
- High end type

- 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.

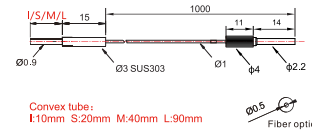
Thru-beam

PT-S31-Q



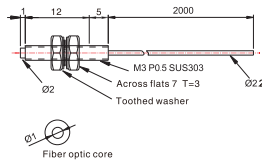
Size: $\phi 3$
 Minimum bending radius: R15
 Sensing distance: 140mm
 (Sensing distance varies with different amplifiers)

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



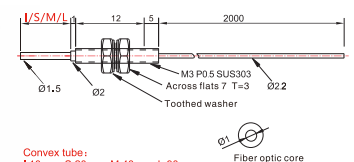
Convex tube:
 I:10mm S:20mm M:40mm L:90mm
 Size: $\phi 3$
 Minimum bending radius: R15
 Sensing distance:
 PC1:1000mm
 PG1:180mm

PT-32



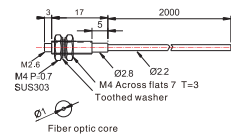
Size: M3
 Minimum bending radius: R25
 Sensing distance:
 PC1:1900mm
 PG1:600mm

PT-32-I/S/M/L



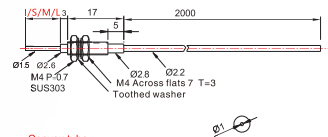
Convex tube:
 I:10mm S:20mm M:40mm L:90mm
 Size: M3
 Minimum bending radius: R25
 Sensing distance:
 PC1:1900mm
 PG1:700mm

PT-42



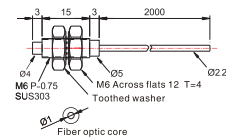
Size: M4
 Minimum bending radius: R25
 Sensing distance: 500mm
 (Sensing distance varies with different amplifiers)

PT-42-I/S/M/L



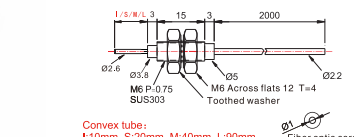
Convex tube:
 I:10mm S:20mm M:40mm L:90mm
 Size: M4
 Minimum bending radius: R25
 Sensing distance:
 PC1:1800mm
 PG1:400mm

PT-62



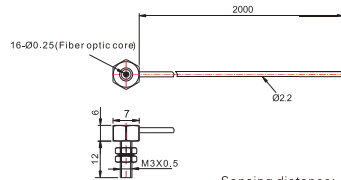
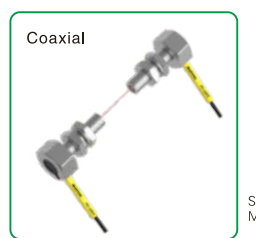
Size: M6
 Minimum bending radius: R25
 Sensing distance: 1500mm
 (Sensing distance varies with different amplifiers)

PT-62-I/S/M/L



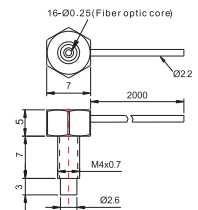
Convex tube:
 I:10mm S:20mm M:40mm L:90mm
 Size: M6
 Minimum bending radius: R25
 Sensing distance:
 PC1:4000mm
 PG1:600mm

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

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

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

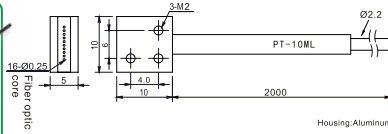
Fiber amplifiers
Standard economical
High stability
High performance type
High speed response

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

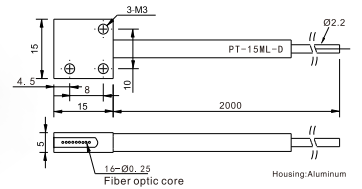
Thru-beam

PT-10ML



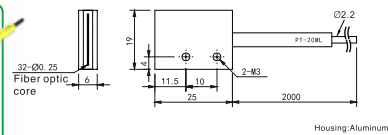
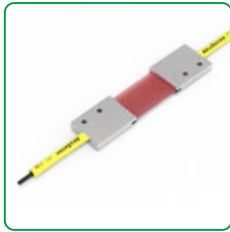
Minimum bending radius: R25
 Min-size Detected object: ϕ 0.1mm
 Sensing distance:
 PC1:1500mm
 PG1:550mm

PT-15ML-D



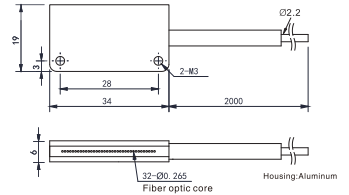
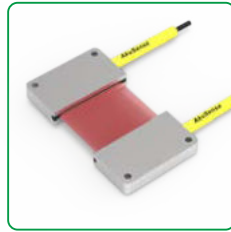
Minimum bending radius: R25
 Min-size Detected object: ϕ 0.5mm
 Sensing distance:
 PC1:1200mm
 PG1:550mm

PT-20ML



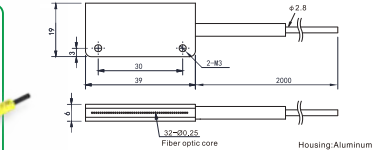
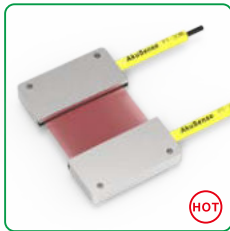
Minimum bending radius: R25
 Min-size Detected object: ϕ 0.5mm
 Sensing distance:
 PC1:1500mm
 PG1:600mm

PT-25ML



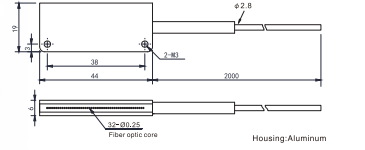
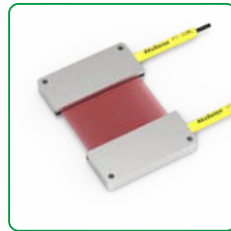
Minimum bending radius: R2
 Min-size Detected object: ϕ 2.0mm
 Sensing distance:
 PC1:1000mm
 PG1:600mm

PT-30ML



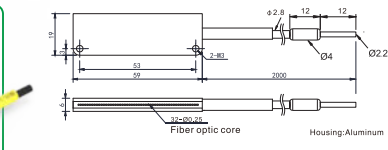
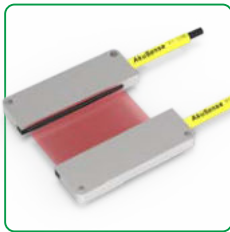
Minimum bending radius: R25
 Min-size Detected object: ϕ 3.0mm
 Sensing distance:
 PC1:3000mm
 PG1:1000mm

PT-35ML



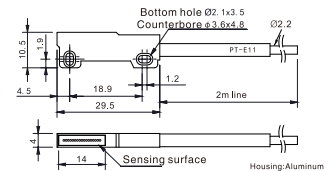
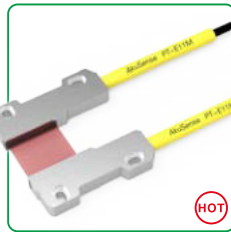
Minimum bending radius: R25
 Min-size Detected object: ϕ 4.0mm
 Sensing distance:
 PC1:1000mm
 PG1:550mm

PT-50ML



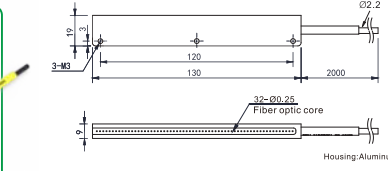
Minimum bending radius: R25
 Min-size Detected object: ϕ 5.0mm
 Sensing distance:
 PC1:1100mm
 PG1:600mm

PT-E11M



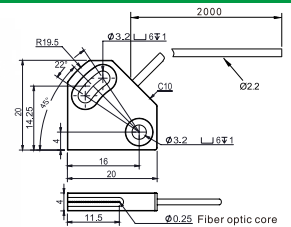
Minimum bending radius: R2
 Sensing distance: 3000mm
 Min-size Detected object: ϕ 1.0mm
 (Sensing distance varies with different amplifiers)

PT-120ML



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

PT-A10



Minimum bending radius: R25
 Min-size Detected object: ϕ 0.05mm
 Sensing distance:
 PC1:3000mm
 PG1:650mm

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

- 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

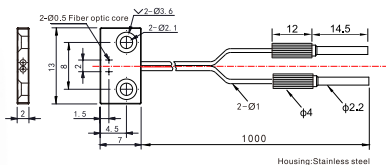
- Popular type
- Array-type
- Flat bracket type
- Side-view type
- High elastic type
- High temperature resistant
- Small spot type
- Combination type
- High end type

Fiber lens

- Fiber lens

Diffuse reflection

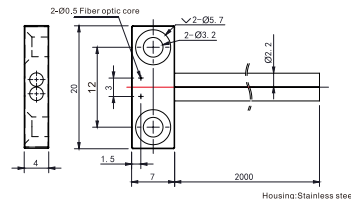
PD-F41UA



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

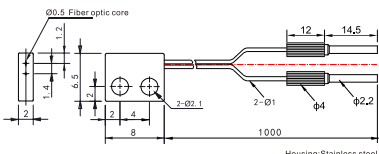
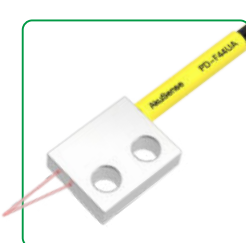


PD-F42UA



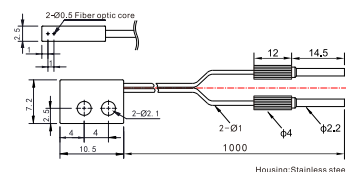
Housing:Stainless steel
Sensing distance:
Minimum bending radius: R2 PC1:160mm
Min-size Detected object: ϕ 0.05mm PG1:120mm

PD-F44UA



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

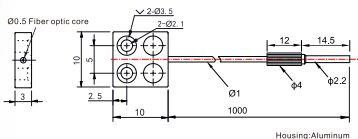
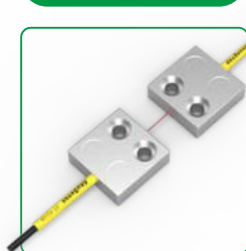
PD-F47UA



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

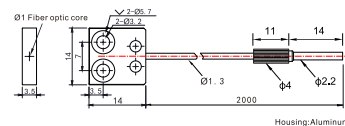
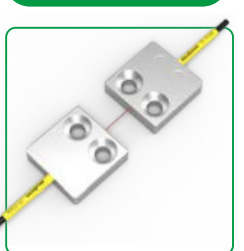
Thru-beam

PT-F51UA



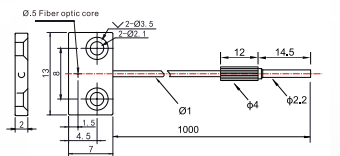
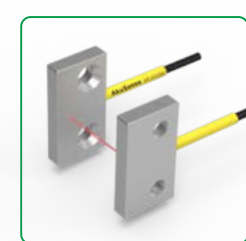
Housing:Aluminum
Sensing distance:
Minimum bending radius: R2 PC1:400mm
Min-size Detected object: ϕ 0.05mm PG1:130mm

PT-F52UA



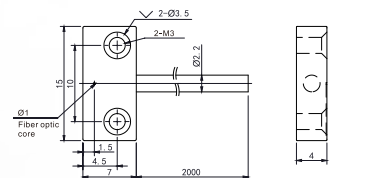
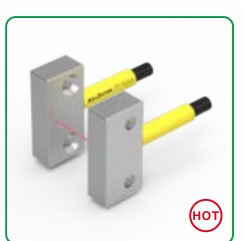
Housing:Aluminum
Sensing distance:
Minimum bending radius: R2 Sensing distance: 1900mm
Min-size Detected object: ϕ 0.05mm
(Sensing distance varies with different amplifiers)

PT-F53UA



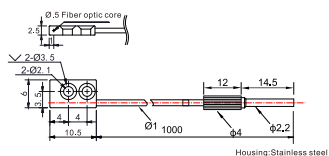
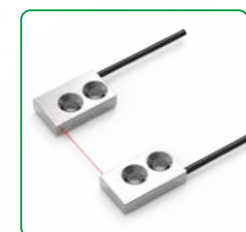
Housing:Stainless steel
Sensing distance:
Minimum bending radius: R2 PC1:210mm
Sensing distance: 340mm
Min-size Detected object: ϕ 0.05mm
(Sensing distance varies with different amplifiers)

PT-F54UA



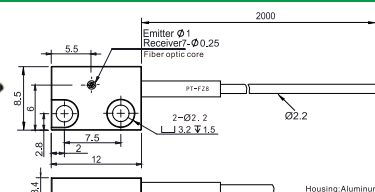
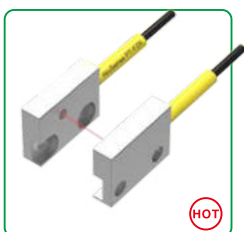
Housing:Stainless steel
Sensing distance:
Minimum bending radius: R2 PC1:1300mm
Min-size Detected object: ϕ 0.05mm PG1:450mm

PT-F57UA



Housing:Stainless steel
Sensing distance:
Minimum bending radius: R2 PC1:400mm
Sensing distance: 480mm
Min-size Detected object: ϕ 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: ϕ 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

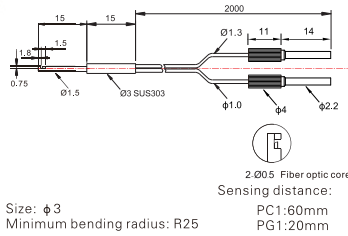
Fiber lens

Fiber lens

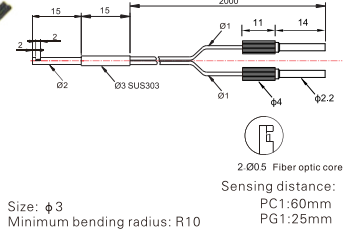
*PG1: TEGA with a threshold setting of 200;
PC1: 7-step with a threshold setting of 200.
*Cable length listed above can be customized.

Diffuse reflection

PD-32-DQ

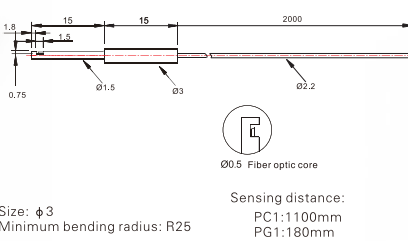


PD-32-SQ

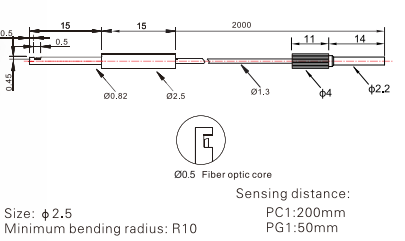


Thru-beam

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

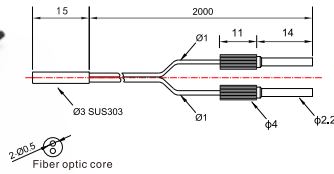
Fiber lens

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.

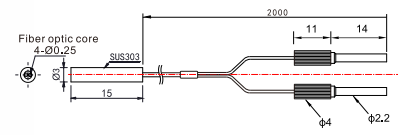
Diffuse reflection

PD-W32-Q



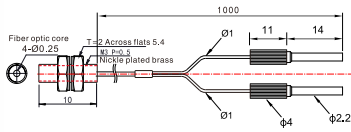
Size: $\phi 3$
 Minimum bending radius: R1
 Sensing distance: PG1:45mm

PD-W48



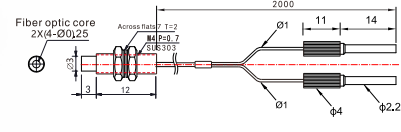
Size: $\phi 3$
 Minimum bending radius: R4
 Sensing distance: 200mm
 (Sensing distance varies with different amplifiers)

PD-W69Y



Size: M3
 Minimum bending radius: R4
 Sensing distance: PC1:110mm
 PG1:25mm

PD-W68



Size: M4
 Minimum bending radius: R4
 Sensing distance: PC1:100mm
 PG1:40mm

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

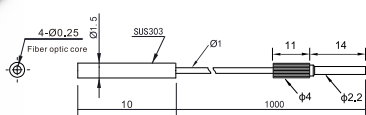
High end type

Fiber lens

Fiber lens

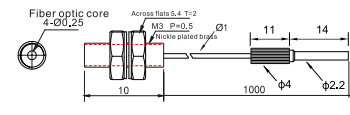
Thru-beam

PT-W59



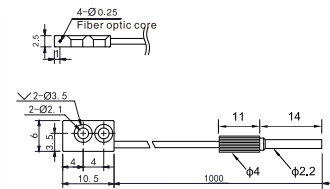
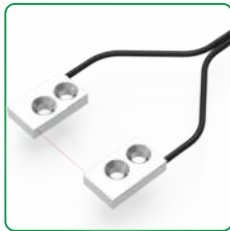
Size: $\phi 1.5$
 Minimum bending radius: R4
 Sensing distance: PC1:350mm
 PG1:100mm

PT-W79



Size: M3
 Minimum bending radius: R4
 Sensing distance: PC1:900mm
 PG1:120mm

PT-W57UF

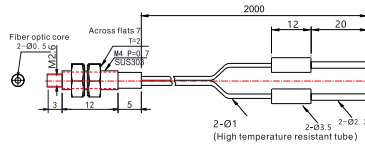


Size: 6*10,5*2,5
 Minimum bending radius: R4
 Sensing distance: 490mm
 (Sensing distance varies with different amplifiers)

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

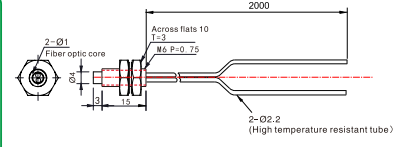
Diffuse reflection

PD-H42Y



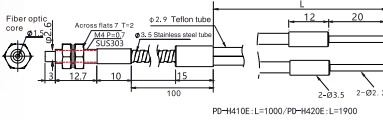
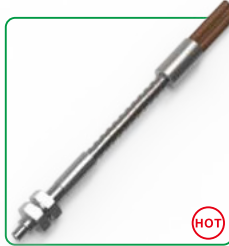
Size: M4
 Max. temperature: 105°C
 Sensing distance: 160mm
 (Sensing distance varies with different amplifiers)

PD-H62Y



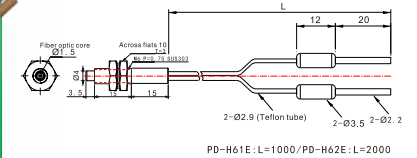
Size: M6
 Max. temperature: 105°C
 Sensing distance: 230mm
 (Sensing distance varies with different amplifiers)

PD-H41E/H42E



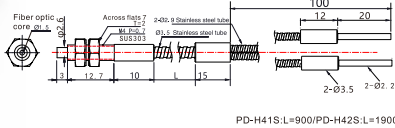
Size: M4
 Max. temperature: 200°C
 Sensing distance:
 PC1:350mm
 PG1:150mm

PD-H61E/H62E



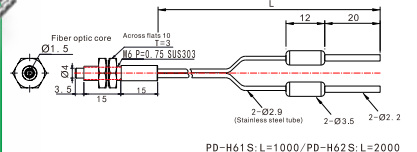
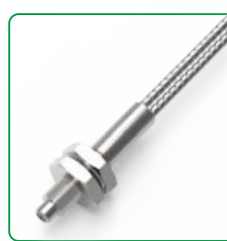
Size: M6
 Max. temperature: 200°C
 Sensing distance: 190mm/180mm
 (Sensing distance varies with different amplifiers)

PD-H41S/H42S



Size: M4
 Max. temperature: 350°C
 Sensing distance:
 PC1:300mm
 PG1:150mm

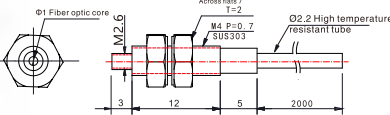
PD-H61S/H62S



Size: M6
 Max. temperature: 350°C
 Sensing distance: 190mm/180mm
 Sensing distance:
 PG1:150mm

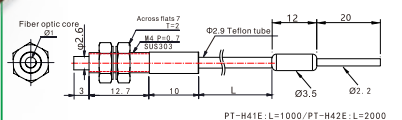
Thru-beam

PT-H42Y



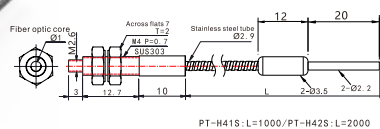
Size: M4
 Max. temperature: 105°C
 Sensing distance:
 PC1:2300mm
 PG1:700mm

PT-H41E/H42E



Size: M4
 Max. temperature: 200°C
 Sensing distance: 450mm/390mm
 (Sensing distance varies with different amplifiers)

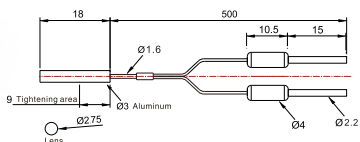
PT-H41S/H42S



Size: M4
 Max. temperature: 350°C
 Sensing distance:
 PC1:1500mm
 PG1:600mm

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

PD-X20



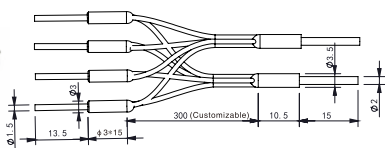
Size: $\phi 3$
 Minimum bending radius: R25
 Focal distance: 5mm

Sensing distance:
 PC1:25mm
 PG1:20mm

HOT

Combination type Fiber components

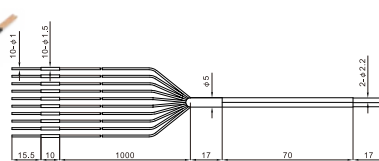
PD-S4Q3-30



Size: $\phi 3$
 Fiber optic sensor heads: 4 Units

Sensing distance:
 PC1:250mm
 PG1:150mm

PD-S10Q1.5-100



Size: $\phi 1.5$
 Fiber optic sensor heads: 10 Units

Sensing distance:
 PC1:80mm
 PG1:20mm

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

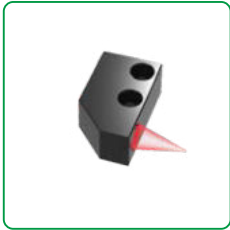
- Fiber lens

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

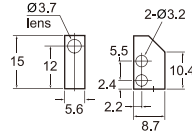
Fiber Lens

Diffuse reflection

PF-5D



Housing:aluminum
Lens:glass

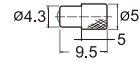


Diameter of beam: ϕ 0.5-3
Suit to M3 diameter fiber optic sensor
Focal distance: 8-30mm

PF-3D



Housing:aluminum
Lens:plastic

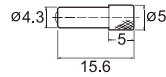


Size of pointed end: ϕ 4.3
Diameter of beam: Approx. ϕ 4 (Sensing distance: 0-20mm)
Suit to M3 diameter fiber optic sensor

PF-2D



Housing:aluminum
Lens:plastic

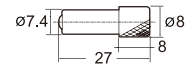


Size of pointed end: ϕ 4.3
Diameter of beam: Approx. ϕ 0.4
Suit to M3 diameter fiber optic sensor
Focal distance: 7 \pm 2mm

PF-4D



Housing:aluminum
Lens:glass

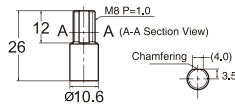


Size of pointed end: ϕ 7.4
Diameter of beam: Approx. ϕ 0.5
Suit to M3 diameter fiber optic sensor
Focal distance: 15 \pm 2mm

PF-6D



Housing:aluminum
Lens:glass



Size of pointed end: ϕ 10.6
Diameter of beam: Approx. ϕ 2.0
Suit to M3 diameter fiber optic sensor
Focal distance: 35 \pm 2mm

Thru-beam

PF-4T



Housing:aluminum
Lens:glass



Size of pointed end: ϕ 4.3
Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

PF-2T

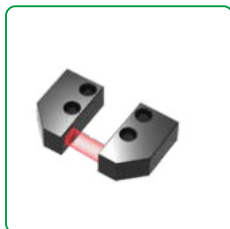


Housing:nickle plated brass
Lens:glass

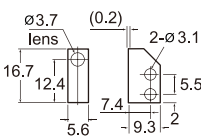


Size of pointed end: ϕ 4
Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

PF-5T

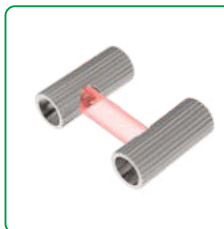


Housing:aluminum
Lens:glass



Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

PF-1T



Housing:nickle plated brass
Lens:acrylic



Size of pointed end: ϕ 4
Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

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