RusAutomation

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 13μs

P.A-04

NEW!

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

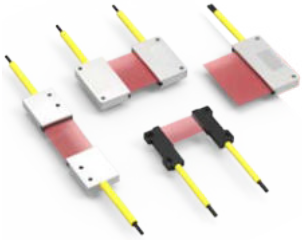
P.A-07

Guidance

Popular Type

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

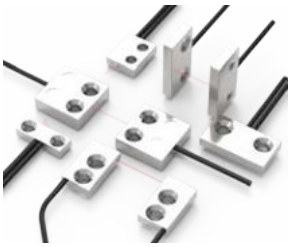
P.A-08



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
- Customicable 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

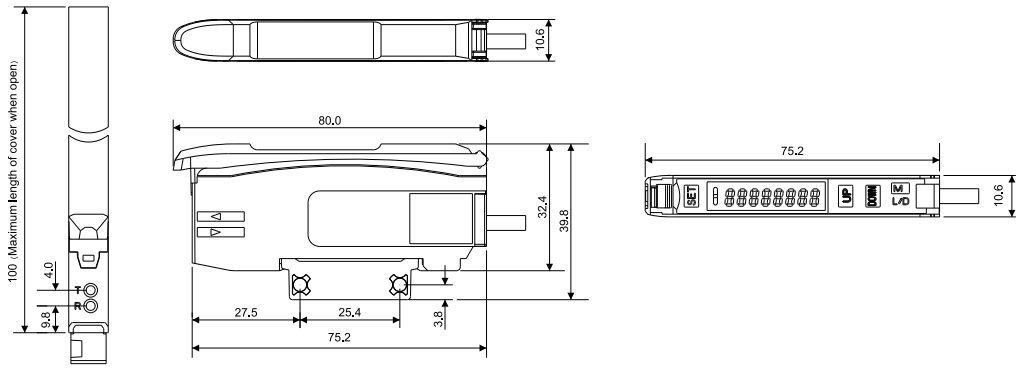
PG1 Dual Digital Display Fiber Optic Amplifier

- 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℃~+55℃,No freezing	

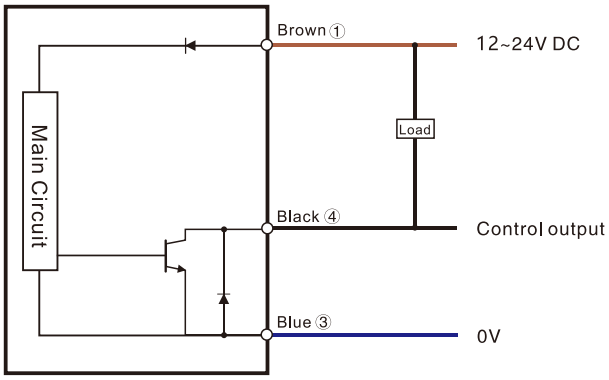
Dimensions

Unit: mm

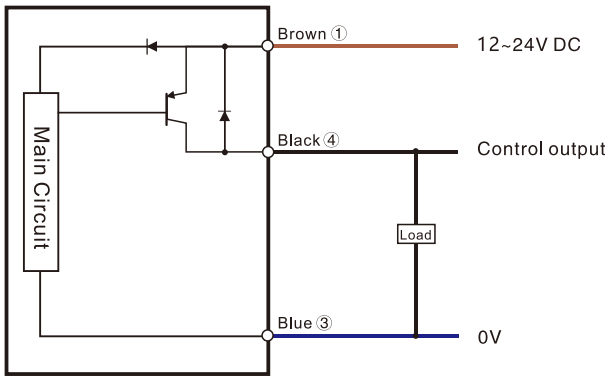


Circuit diagram

NPN



PNP



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

Highly Stable Type Fiber Amplifier

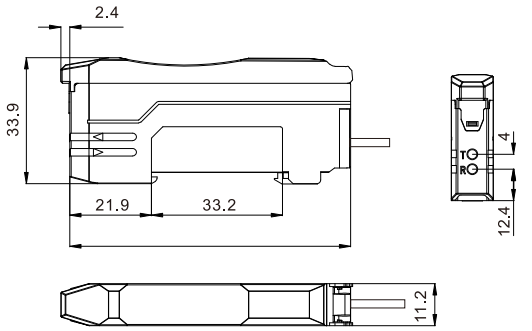
PG5 Highly Stable Dual Digital Display Fiber Amplifier

- 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 HOT	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℃~+55℃, 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/s2, 3 times each in X, Y, and Z axis directions	
Shell material	Polycarbonate	

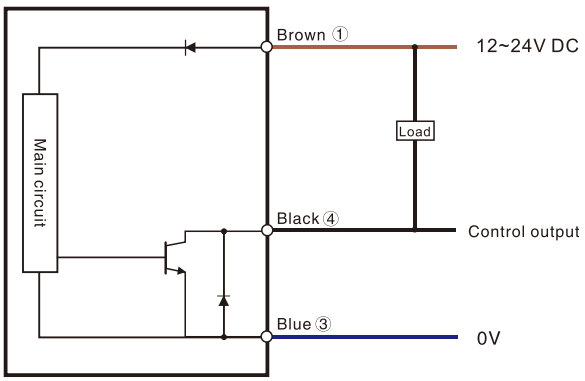
Dimensions

Unit: mm

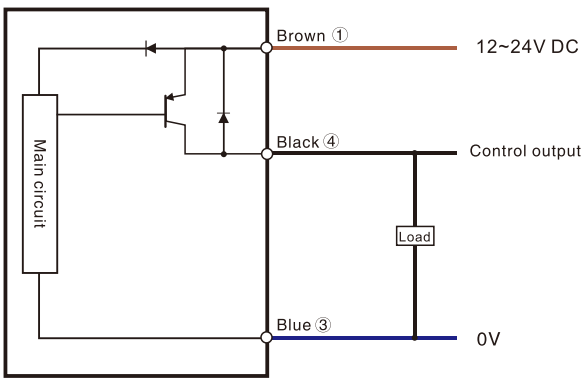


Circuit diagram

NPN



PNP

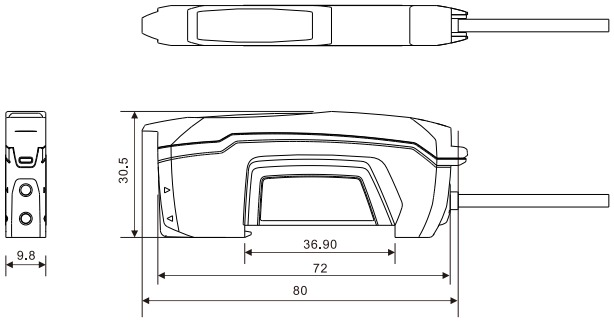


PB1 High Performance Dual Digital Fiber Amplifier

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

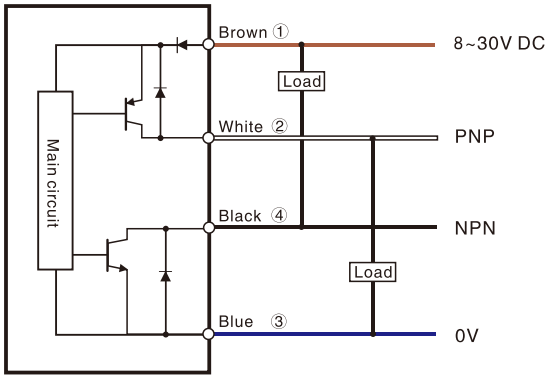
Model No.	PB1
Light source	Modulated red light 680nm
Operating voltage	8~30V DC
Saturation voltage	25mA＜1.2V，100mA＜2V
Load current	＜50mA
Output current	＜200mA
Leakage current	＜100uA
Output type	NPN/PNP open–collector
Switch type	Selectable L.on/D.on
Display screen	7 segment 8 digit display (red: 4 digit, green: 4 digit)
Response time	50 μ s/ 250 μ s/ 500 μ s/ 1ms/ 4ms
Time delay function	＜50ms
Operating temperature	–10℃~+60℃
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

Dimensions



Circuit diagram

NPN/PNP



High Speed Response Type

Fiber Amplifier

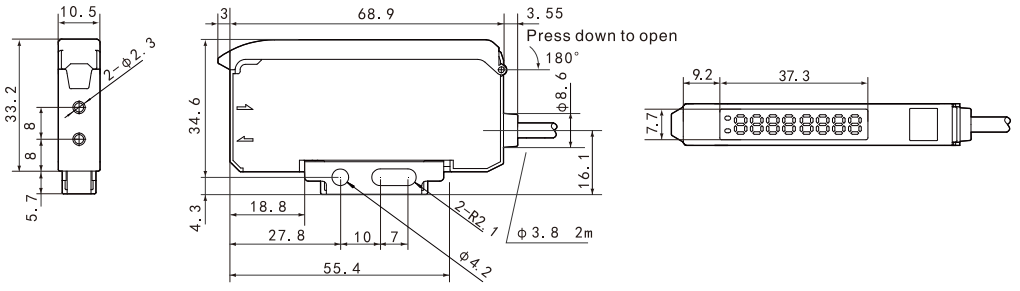
PC1 Ultra High Speed Response Dual Digital Display Fiber Amplifier

- 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
	≤100mA / 30V DC, Load current≤100mA, Voltage drop≤1.8V, Normally open (L.on), normally closed (D.on)			
Switch type	Selectable L.on, D.on			
Indicator	Single output indicator (Red), dual output indicator (Orange)			
Display screen	7 segment 8 digit display (red: 4 digit, orange: 4 digit)			
Response time	15μs/22us(1-HS), 70μs(2-FS), 250μs(3-ST), 500μs(4-LG), 1ms(5-PL), 2ms(6-UL), 8ms(7-EL)			
ON/OFF Time delay function	ON delay, OFF delay, Single pulse output, ON + OFF delay, ON delay+Single pulse output 0.1~9.999ms			
Sensing distance	Thru-beam: 4000mm, Diffuse reflection: 1200mm			
Sensitivity adjustment	Teach-in / Manual			
External output function	Remote teach-in , Input stops once it shines, Syn trigger input, reset-input (for two outputs only)			
Operating temperature	-25℃~+55℃			
Operating humidity	35%~85%RH			
Ambient brightness	Sunlight≤10000lux, Incandescent lamp≤3000lux			
Anti-vibration	10~55Hz Double amplitude 1.5mm, XZY three directions, 2 hours each			
Shock resistance	50G(500m/S²), XYZ three directions			
Degree of protection	IP50			
Material	Shell: PPE, Display: PC			
Connection method	2m 5 core cable			
Weight	50g			

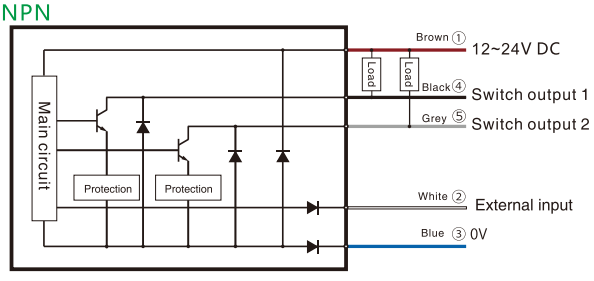
Dimensions

Unit: mm

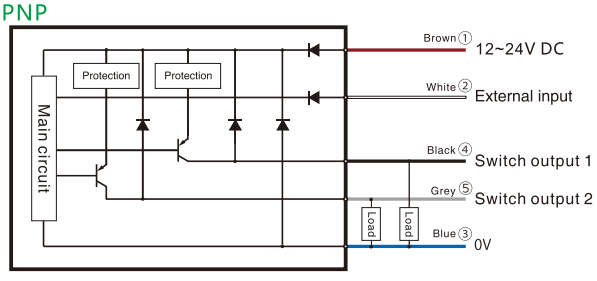


Circuit diagram

NPN

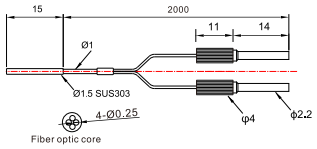


PNP



Diffuse reflection

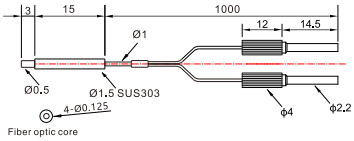
PD-R49Y



Size: φ1.5
Minimum bending radius:R2

Sensing distance:
PC1:100mm
PG1:20mm

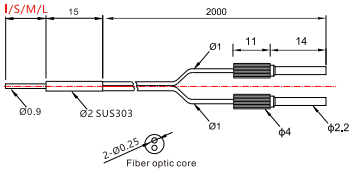
PD-R46



Size: φ1.5
Minimum bending radius: R10

Sensing distance:
PC1:30mm
PG1:8mm

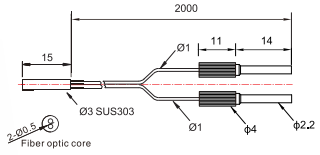
PD-E22-Q-I/S/M/L



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

Size: φ2
Minimum bending radius: R10
Sensing distance: 15mm
(Sensing distance varies with different amplifiers)

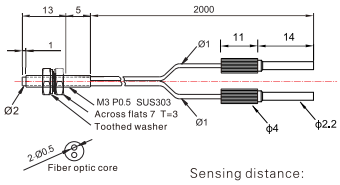
PD-S32-Q



Size: φ3
Minimum bending radius: R10

Sensing distance:
PC1:120mm
PG1:40mm

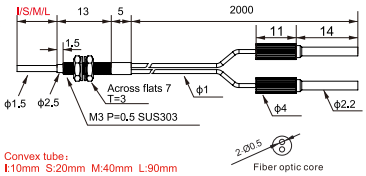
PD-32



Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:120mm
PG1:60mm

PD-32-I/S/M/L

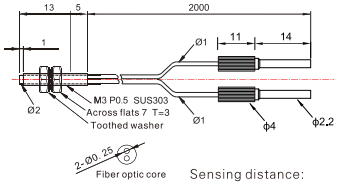


Convex tube:
I:10mm S:20mm M:40mm L:90mm

Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:160mm
PG1:60mm

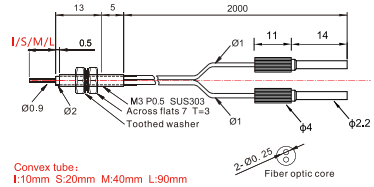
PD-E32



Size: M3
Minimum bending radius: R10
Sensing distance:

Sensing distance:
PC1:30mm
PG1:10mm

PD-E32-I/S/M/L

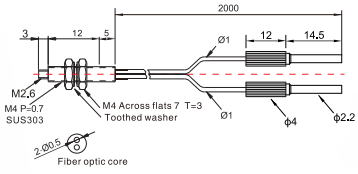


Convex tube:
I:10mm S:20mm M:40mm L:90mm

Size: M3
Minimum bending radius: R10

PC1:30mm
PG1:10mm

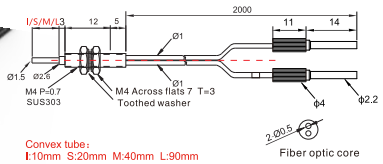
PD-42



Size: M4
Minimum bending radius: R15

Sensing distance:
PC1:120mm
PG1:45mm

PD-42-I/S/M/L



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

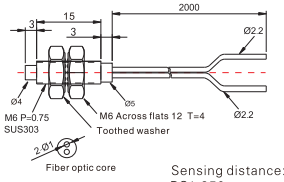
Size: M4
Minimum bending radius: R15

Sensing distance:
PC1:110mm
PG1:45mm

*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

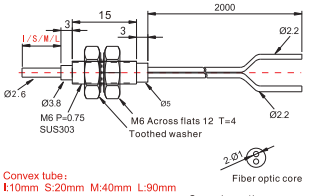
PD-62



Size: M6
Minimum bending radius: R25

Sensing distance:
PC1:350mm
PG1:150mm

PD-62-I/S/M/L

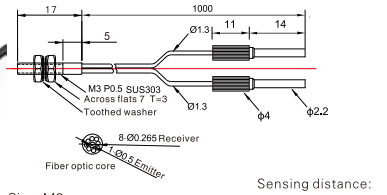


Size: M6
Minimum bending radius: R25

Sensing distance:
PC1:350mm
PG1:150mm

PD-L35GA

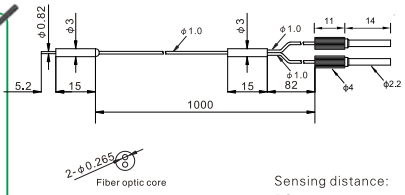
Coaxial



Size: M3
Minimum bending radius: R2

Sensing distance:
PC1:200mm
PG1:85mm

PD-G45Y

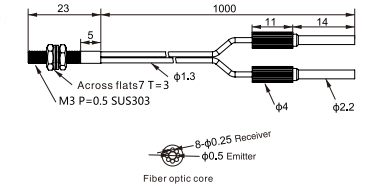


Size: ϕ0.82/3
Minimum bending radius: R4

Sensing distance:
PC1:30mm
PG1:10mm

PD-C310-35FA

Coaxial

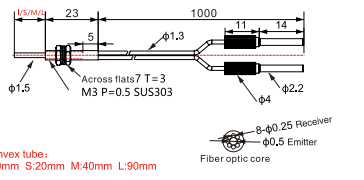


Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:220mm
PG1:90mm

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

Coaxial

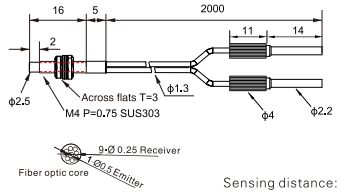


Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:200mm
PG1:70mm

PD-C42

Coaxial

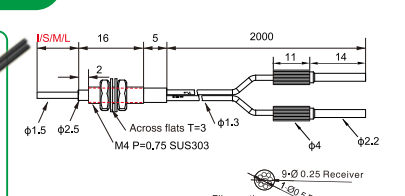


Size: M4
Minimum bending radius: R15

Sensing distance:
PC1:180mm
PG1:60mm

PD-C42-I/S/M/L

Coaxial

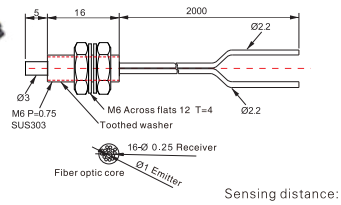


Size: M4
Minimum bending radius: R15

Sensing distance:
PC1:220mm
PG1:85mm

PD-C62

Coaxial

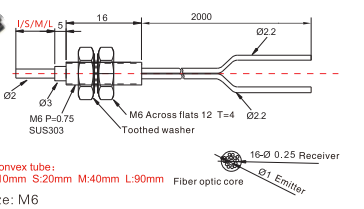


Size: M6
Minimum bending radius: R25

Sensing distance:
PC1:350mm
PG1:150mm

PD-C62-I/S/M/L

Coaxial



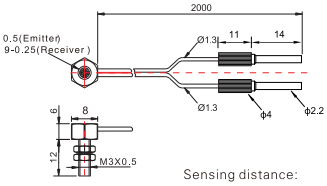
Size: M6
Minimum bending radius: R25
Sensing distance: 90mm
(Sensing distance varies with different amplifiers)

*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

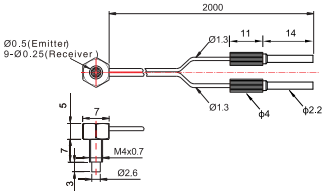


Size: M3
Minimum bending radius: R5

Sensing distance:
PC1:150mm
PG1:60mm

PD-C42TZ

Coaxial

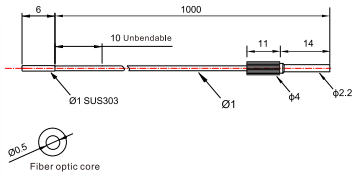


Size: M4
Minimum bending radius: R5

Sensing distance:
PC1:120mm
PG1:50mm

Thru-beam

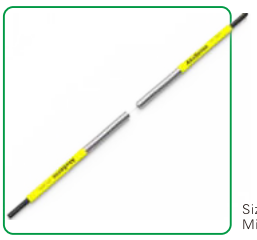
PT-R58V

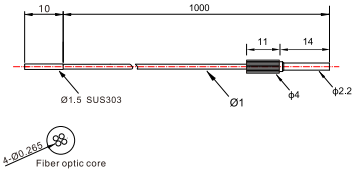


Size: ϕ1.0
Minimum bending radius: R4

Sensing distance:
PC1:400mm
PG1:130mm

PT-R59

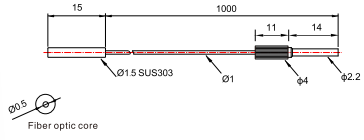




Size: ϕ1.5
Minimum bending radius: R4

Sensing distance:
PC1:550mm
PG1:200mm

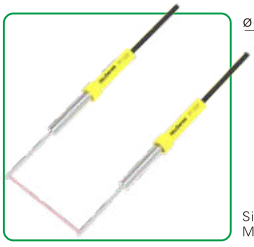
PT-S1520-Q

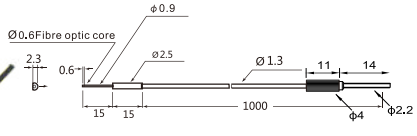


Size: ϕ1.5
Minimum bending radius: R15

Sensing distance:
PC1:1500mm
PG1:170mm

PT-G32





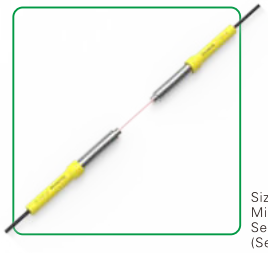
Size: 0.82/2.5
Minimum bending radius: R25

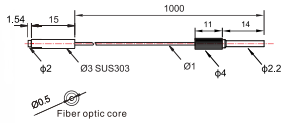
Sensing distance:
PC1:550mm
PG1:200mm

*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

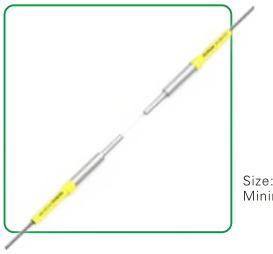
PT-S31-Q

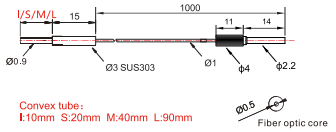




Size: ϕ3
Minimum bending radius: R15
Sensing distance: 140mm
(Sensing distance varies with different amplifiers)

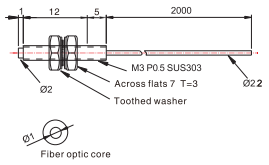
PT-S31-Q-I/S/M/L





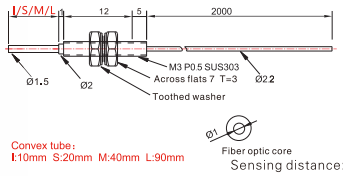
Size: ϕ3
Minimum bending radius: R15
Sensing distance:
PC1:1000mm
PG1:180mm

PT-32



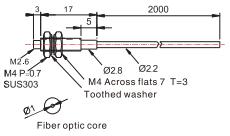
Size: M3
Minimum bending radius: R25
Sensing distance:
PC1:1900mm
PG1:600mm

PT-32-I/S/M/L



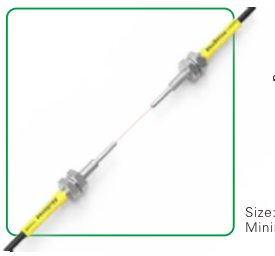
Size: M3
Minimum bending radius: R25
Sensing distance:
PC1:1900mm
PG1:700mm

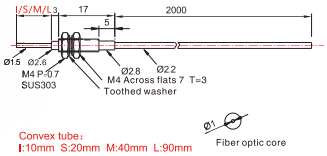
PT-42



Size: M4
Minimum bending radius: R25
Sensing distance: 500mm
(Sensing distance varies with different amplifiers)
Sensing distance:
PC1:2200mm
PG1:600mm

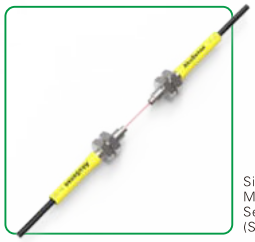
PT-42-I/S/M/L

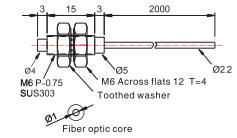




Size: M4
Minimum bending radius: R25
Sensing distance:
PC1:1800mm
PG1:400mm

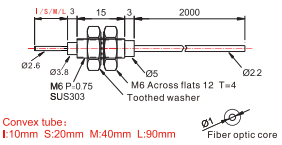
PT-62





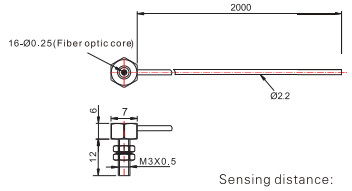
Size: M6
Minimum bending radius: R25
Sensing distance: 1500mm
(Sensing distance varies with different amplifiers)
Sensing distance:
PC1:1400mm
PG1:600mm

PT-62-I/S/M/L



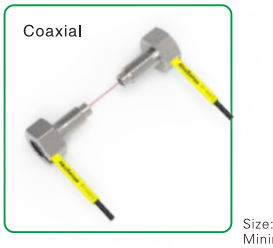
Size: M6
Minimum bending radius: R25
Sensing distance:
PC1:4000mm
PG1:600mm

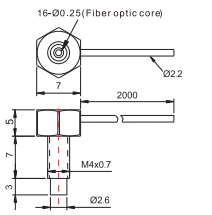
PT-C32TZ



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

PT-C42TZ



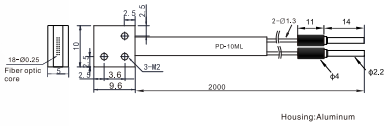


Size: M4
Minimum bending radius: R15
Sensing distance:
PC1:1500mm
PG1:600mm

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

Diffuse reflection

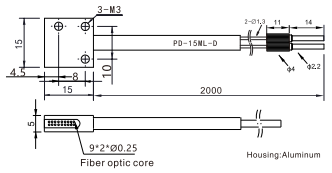
PD-10ML



Minimum bending radius: R25
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:250mm
PG1:80mm

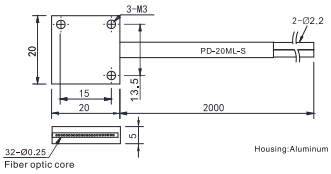
PD-15ML-D



Minimum bending radius: R25
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:250mm
PG1:80mm

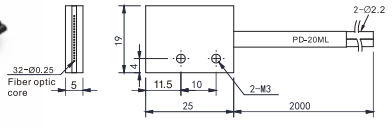
PD-20ML-S



Minimum bending radius: R25
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:350mm
PG1:150mm

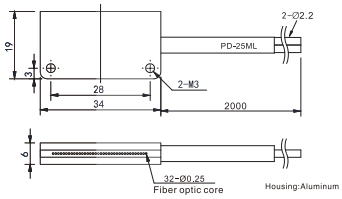
PD-20ML



Minimum bending radius: R25
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:530mm
PG1:140mm

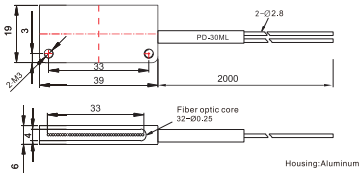
PD-25ML



Minimum bending radius: R25
Min-size Detected object: ϕ2mm

Sensing distance:
PC1:300mm
PG1:150mm

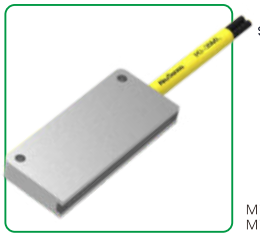
PD-30ML

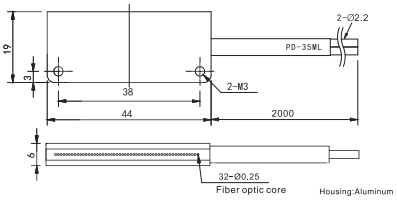


Minimum bending radius: R25
Min-size Detected object: ϕ4mm

Sensing distance:
PC1:300mm
PG1:150mm

PD-35ML

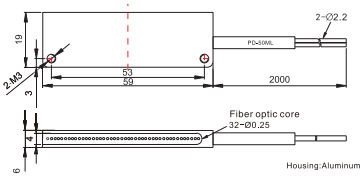




Minimum bending radius: R25
Min-size Detected object: ϕ6mm

Sensing distance:
PC1:450mm
PG1:120mm

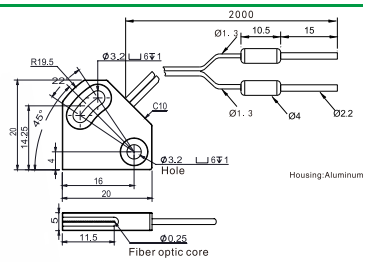
PD-50ML



Minimum bending radius: R25
Min-size Detected object: ϕ10mm

Sensing distance:
PC1:260mm
PG1:130mm

PD-A10



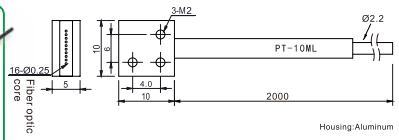
Minimum bending radius: R25
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:200mm
PG1:95mm

*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

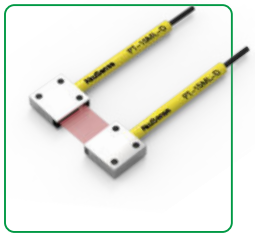
PT-10ML

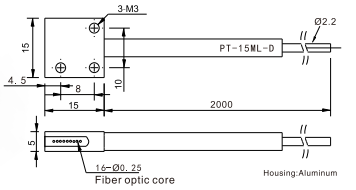


Minimum bending radius: R25
Min-size Detected object: ϕ0.1mm

Sensing distance:
PC1:1500mm
PG1:550mm

PT-15ML-D

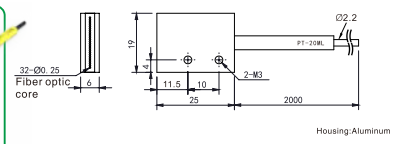




Minimum bending radius: R25
Min-size Detected object: ϕ0.5mm

Sensing distance:
PC1:1200mm
PG1:550mm

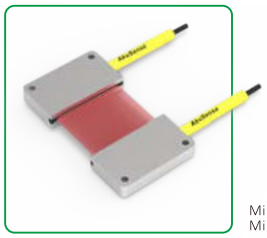
PT-20ML

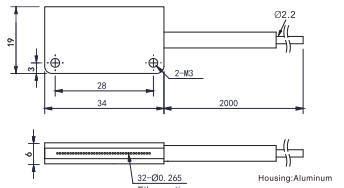


Minimum bending radius: R25
Min-size Detected object: ϕ0.5mm

Sensing distance:
PC1:1500mm
PG1:600mm

PT-25ML

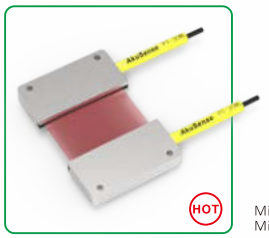


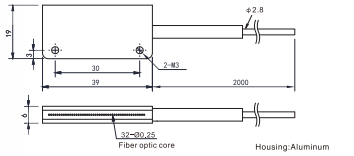


Minimum bending radius: R2
Min-size Detected object: ϕ2.0mm

Sensing distance:
PC1:1000mm
PG1:600mm

PT-30ML

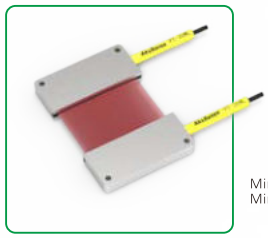


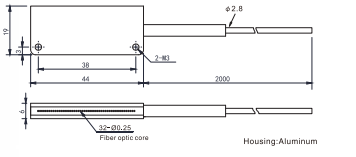


Minimum bending radius: R25
Min-size Detected object: ϕ3.0mm

Sensing distance:
PC1:3000mm
PG1:1000mm

PT-35ML

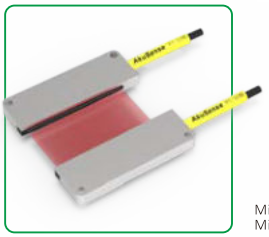


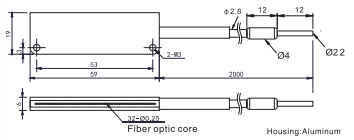


Minimum bending radius: R25
Min-size Detected object: ϕ4.0mm

Sensing distance:
PC1:1000mm
PG1:550mm

PT-50ML

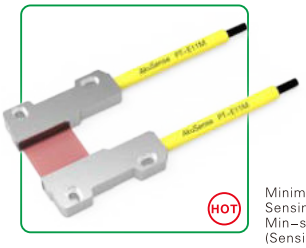


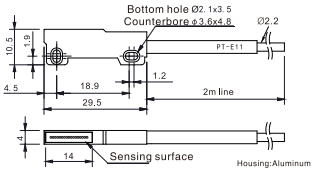


Minimum bending radius: R25
Min-size Detected object: ϕ5.0mm

Sensing distance:
PC1:1100mm
PG1:600mm

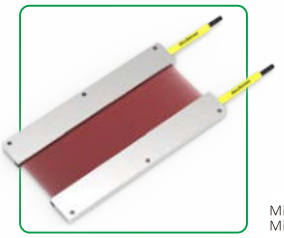
PT-E11M

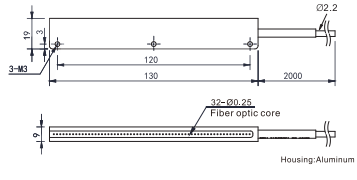




Minimum bending radius: R2
Sensing distance: 3000mm
Min-size Detected object: ϕ1.0mm
(Sensing distance varies with different amplifiers)

PT-120ML

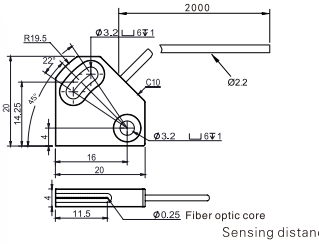




Minimum bending radius: R25
Min-size Detected object: ϕ30mm

Sensing distance:
PC1:4000mm
PG1:1200mm

PT-A10



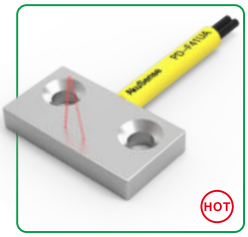
Minimum bending radius: R25
Min-size Detected object: ϕ0.05mm

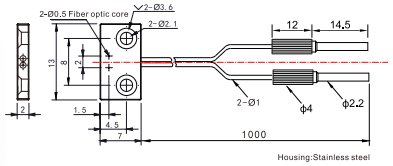
Sensing distance:
PC1:3000mm
PG1:650mm

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

Diffuse reflection

PD-F41UA

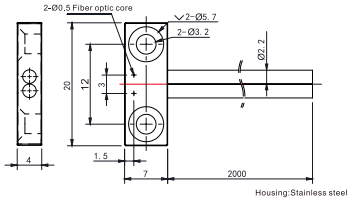




Minimum bending radius: R2
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:80mm
PG1:30mm

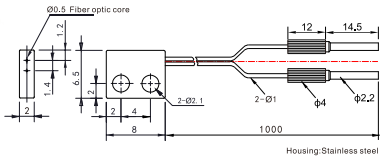
PD-F42UA



Minimum bending radius: R2
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:160mm
PG1:120mm

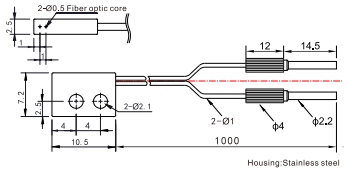
PD-F44UA



Minimum bending radius: R2
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:120mm
PG1:55mm

PD-F47UA

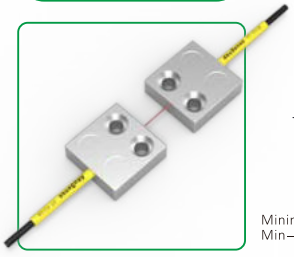


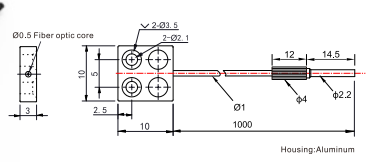
Minimum bending radius: R2
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:80mm
PG1:25mm

Thru-beam

PT-F51UA

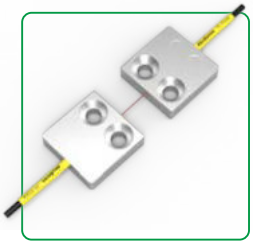


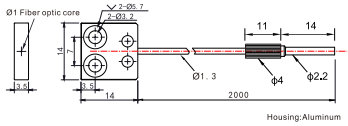


Minimum bending radius: R2
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:400mm
PG1:130mm

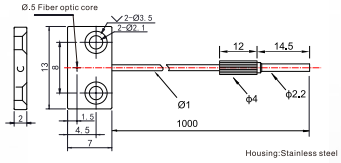
PT-F52UA





Minimum bending radius: R2
Sensing distance: 1900mm
Min-size Detected object: ϕ0.05mm
(Sensing distance varies with different amplifiers)

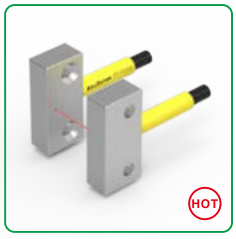
PT-F53UA

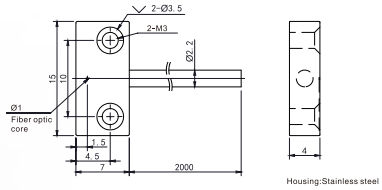


Minimum bending radius: R2
Sensing distance: 340mm
Min-size Detected object: ϕ0.05mm
(Sensing distance varies with different amplifiers)

Sensing distance:
PC1:210mm
PG1:80mm

PT-F54UA

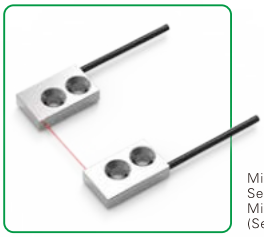


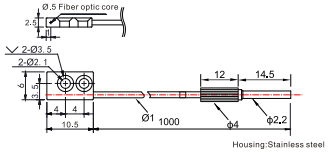


Minimum bending radius: R2
Min-size Detected object: ϕ0.05mm

Sensing distance:
PC1:1300mm
PG1:450mm

PT-F57UA

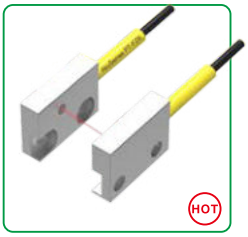


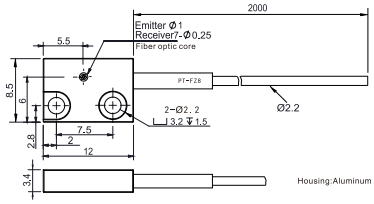


Minimum bending radius: R2
Sensing distance: 480mm
Min-size Detected object: ϕ0.05mm
(Sensing distance varies with different amplifiers)

Sensing distance:
PC1:400mm
PG1:100mm

PT-FZ8





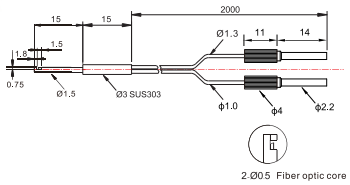
Minimum bending radius: R15
Sensing distance: 120mm
Min-size Detected object: ϕ0.1mm
(Sensing distance varies with different amplifiers)

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

Side-view Type Fiber Components

Diffuse reflection

PD-32-DQ

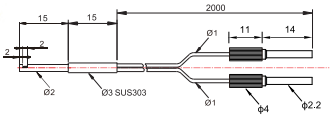


2.Ø0.5 Fiber optic core

Size: ϕ3
Minimum bending radius: R25

Sensing distance:
PC1:60mm
PG1:20mm

PD-32-SQ



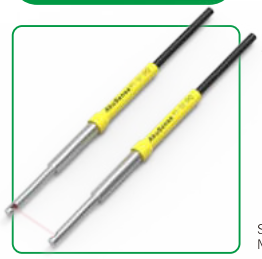
2.Ø0.5 Fiber optic core

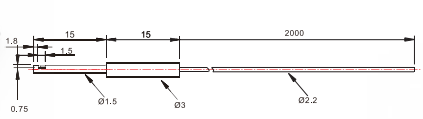
Size: ϕ3
Minimum bending radius: R10

Sensing distance:
PC1:60mm
PG1:25mm

Thru-beam

PT-32-DQ



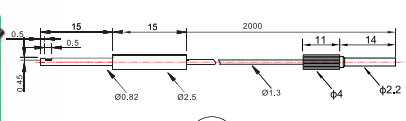


Ø0.5 Fiber optic core

Size: ϕ3
Minimum bending radius: R25

Sensing distance:
PC1:1100mm
PG1:180mm

PT-32-SQ



Ø0.5 Fiber optic core

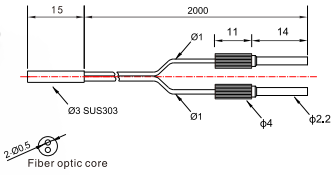
Size: ϕ2.5
Minimum bending radius: R10

Sensing distance:
PC1:200mm
PG1:50mm

*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

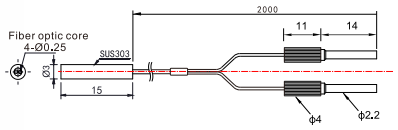
PD-W32-Q



Size: ϕ3
Minimum bending radius: R1

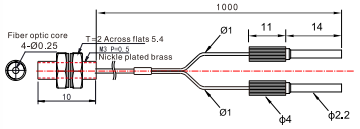
Sensing distance:
PG1:45mm

PD-W48



Size: ϕ3
Minimum bending radius: R4
Sensing distance: 200mm
(Sensing distance varies with different amplifiers)

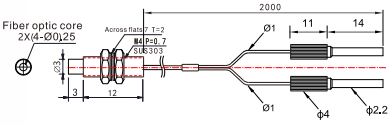
PD-W69Y



Size: M3
Minimum bending radius: R4

Sensing distance:
PC1:110mm
PG1:25mm

PD-W68

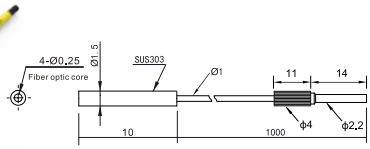


Size: M4
Minimum bending radius: R4

Sensing distance:
PC1:100mm
PG1:40mm

Thru-beam

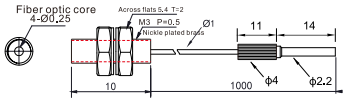
PT-W59



Size: ϕ1.5
Minimum bending radius: R4

Sensing distance:
PC1:350mm
PG1:100mm

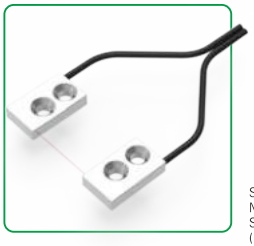
PT-W79

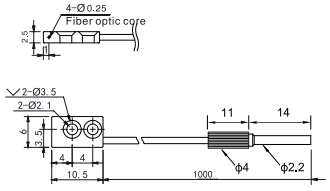


Size: M3
Minimum bending radius: R4

Sensing distance:
PC1:900mm
PG1:120mm

PT-W57UF





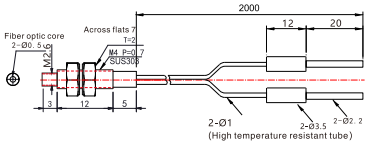
Size: 6*10.5*2.5
Minimum bending radius: R4
Sensing distance: 490mm
(Sensing distance varies with different amplifiers)

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

High Temperature Resistant Type

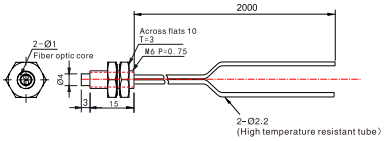
Diffuse reflection

PD-H42Y



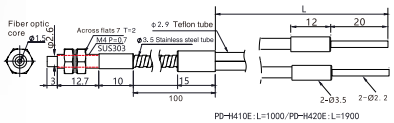
Size: M4
Max. temperature: 105℃
Sensing distance: 160mm
(Sensing distance varies with different amplifiers)

PD-H62Y



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

PD-H41E/H42E

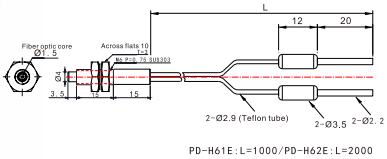


PD-H410E:L=1000/PD-H420E:L=1900

Size: M4
Max. temperature: 200℃

Sensing distance:
PC1:350mm
PG1:150mm

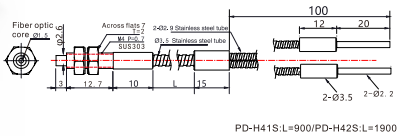
PD-H61E/H62E



PD-H61E:L=1000/PD-H62E:L=2000

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

PD-H41S/H42S

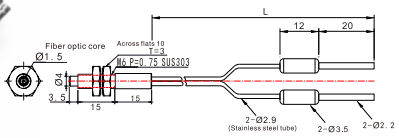


PD-H41S:L=900/PD-H42S:L=1900

Size: M4
Max. temperature: 350℃

Sensing distance:
PC1:300mm
PG1:150mm

PD-H61S/H62S



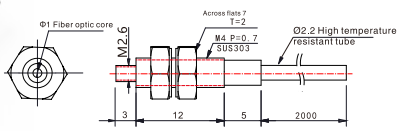
PD-H61S:L=1000/PD-H62S:L=2000

Size: M6
Max. temperature: 350℃
Sensing distance: 190mm/180mm

Sensing distance:
PG1:150mm

Thru-beam

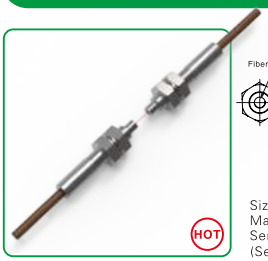
PT-H42Y

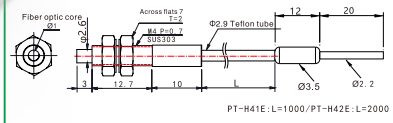


Size: M4
Max. temperature: 105℃

Sensing distance:
PC1:2300mm
PG1:700mm

PT-H41E/H42E

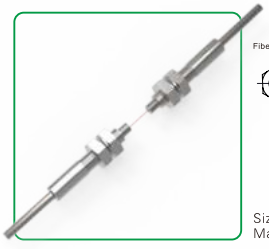


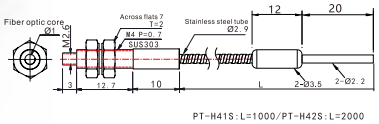


PT-H41E:L=1000/PT-H42E:L=2000

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

PT-H41S/H42S





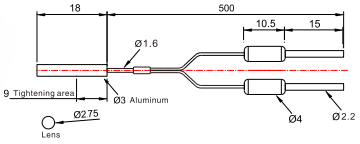
PT-H41S:L=1000/PT-H42S:L=2000

Size: M4
Max. temperature: 350℃

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

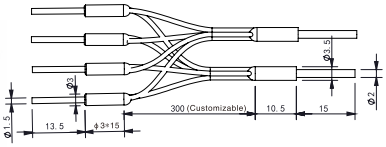


Size: ϕ3
Minimum bending radius: R25
Focal distance: 5mm

Sensing distance:
PC1:25mm
PG1:20mm

Combination type Fiber components

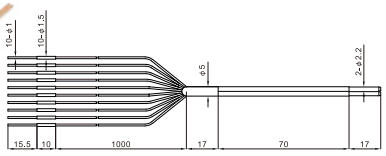
PD-S4Q3-30



Size: ϕ3
Fiber optic sensor heads: 4 Units

Sensing distance:
PC1:250mm
PG1:50mm

PD-S10Q1.5-100



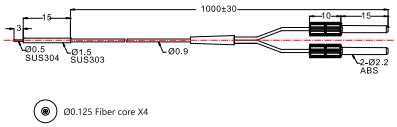
Size: ϕ1.5
Fiber optic sensor heads: 10 Units

Sensing distance:
PC1:80mm
PG1:20mm

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

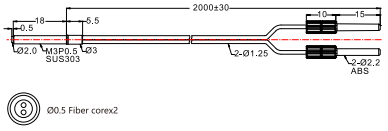
Diffuse reflection

PD-R15



Size: ϕ1.5
Minimum bending radius: R10
Sensing distance: 4.8mm
(Sensing distance varies with different amplifiers)

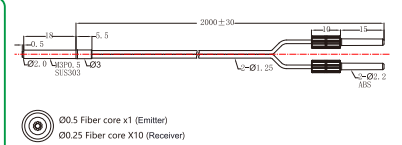
PD-R32



Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:240mm

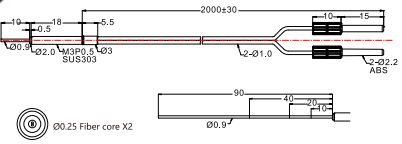
PD-RC32



Size: M3
Minimum bending radius: R15

Sensing distance:
PC1:250mm
PG1:75mm

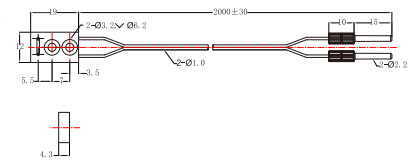
PD-RE32-I/S/M/L



I:10mm S:20mm M:40mm L:90mm

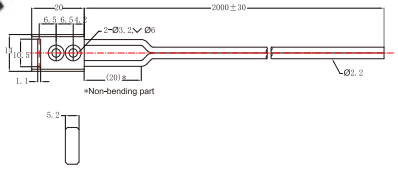
Size: M3
Minimum bending radius: R15
Sensing distance: 10mm
(Sensing distance varies with different amplifiers)

PD-R38V



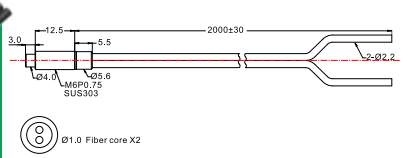
Minimum bending radius: R10
Sensing distance: 0–4mm
(Sensing distance varies with different amplifiers)

PD-R38L



Minimum bending radius: R25
Sensing distance: 8–32mm
(Sensing distance varies with different amplifiers)

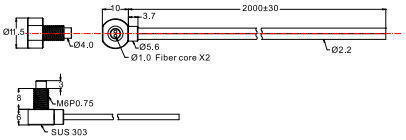
PD-R62



Size: M6
Minimum bending radius: R25

Sensing distance:
PC1:400mm
PG1:180mm

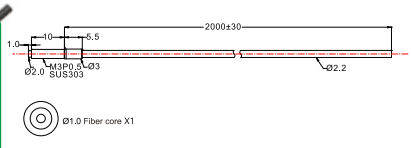
PD-R62TE



Size: M6
Minimum bending radius: R2
Sensing distance: 140mm
(Sensing distance varies with different amplifiers)

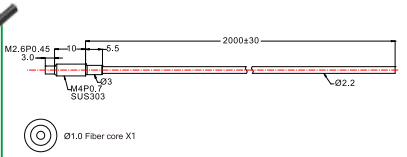
Thru-beam

PT-R32



Size: M3
Minimum bending radius: R25
Sensing distance: 1000mm
(Sensing distance varies with different amplifiers)

PT-R42



Size: M4
Minimum bending radius: R25

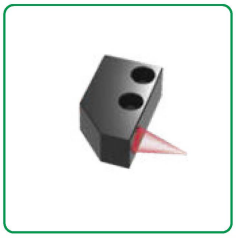
Sensing distance:
PC1:2200mm
PG1:500mm

*PG1: TEGA with a threshold setting of 200;
PC1: 7–step with a threshold setting of 200.

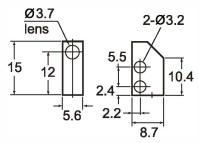
Fiber Lens

Diffuse reflection

PF-5D



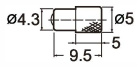
Housing:aluminum
Lens:glass



Diameter of beam: ϕ0.5~3
Suit to M3 diameter fiber optic sensor
Focal distance: 8~30mm

PF-3D

Housing:aluminum
Lens:plastic



Size of pointed end: ϕ4.3
Diameter of beam: Approx. ϕ4(Sensing distance: 0~20mm)
Suit to M3 diameter fiber optic sensor

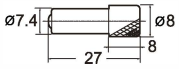
PF-2D

Housing:aluminum
Lens:plastic

Size of pointed end: ϕ4.3
Diameter of beam: Approx. ϕ0.4
Suit to M3 diameter fiber optic sensor
Focal distance: 7±2mm

PF-4D

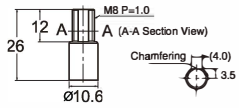
Housing:aluminum
Lens:glass



Size of pointed end: ϕ7.4
Diameter of beam: Approx. ϕ0.5
Suit to M3 diameter fiber optic sensor
Focal distance: 15±2mm

PF-6D

Housing:aluminum
Lens:glass



Size of pointed end: ϕ10.6
Diameter of beam: Approx. ϕ2.0
Suit to M3 diameter fiber optic sensor
Focal distance: 35±2mm

Thru-beam

PF-4T

Housing:aluminum
Lens:glass

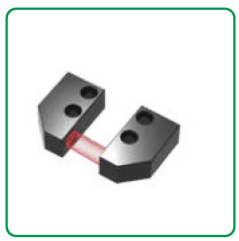
Size of pointed end: ϕ4.3
Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

PF-2T

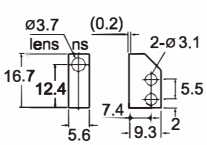
Housing:nickle plated brass
Lens:glass

Size of pointed end: ϕ4
Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

PF-5T

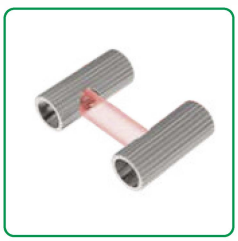


Housing:aluminum
Lens:glass

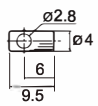


Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

PF-1T



Housing:nickle plated brass
Lens:acrylic



Size of pointed end: ϕ4
Suit to M2.6 diameter fiber optic sensor
Max.sensing distance: 3600mm

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