

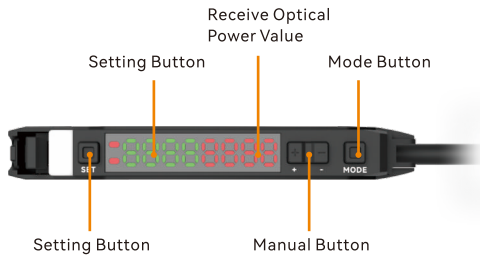
Fiber Optic Sensors



- Optical fiber amplifiers designed with automatic light compensation technology to effectively guarantee the stability of detection.
- Full range of optical fiber components can work as perfect replacement for popular models in the market.
- Customization is available according to the users' on-site applications.
- Abundant inventory, quick response and fast delivery.

Intuitive and Convenient LED Dual Digital Display

5mm wider than regular displays, providing enhanced visibility



Strong light may cause a decrease in contrast.
In such cases, simply press and hold the "MODE" button to automatically adjust the brightness of the fiber optic amplifier to the appropriate level.



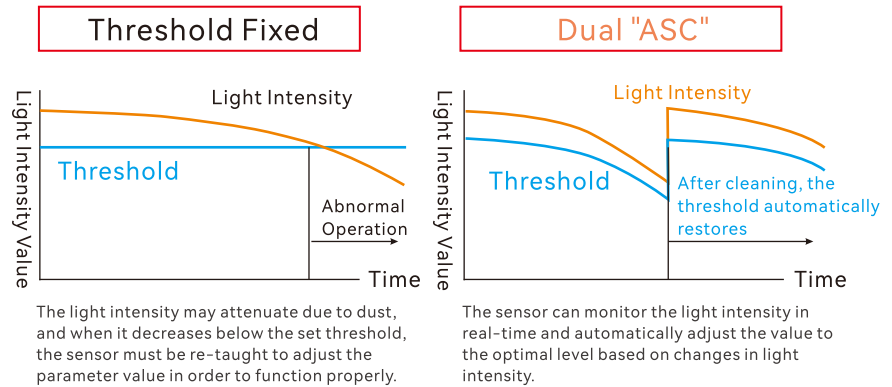
Automatic Light Quantity Adjustment Feature

1. "ASC" for More Stable Detection

In typical sensor applications, light attenuation often occurs in dusty environments.

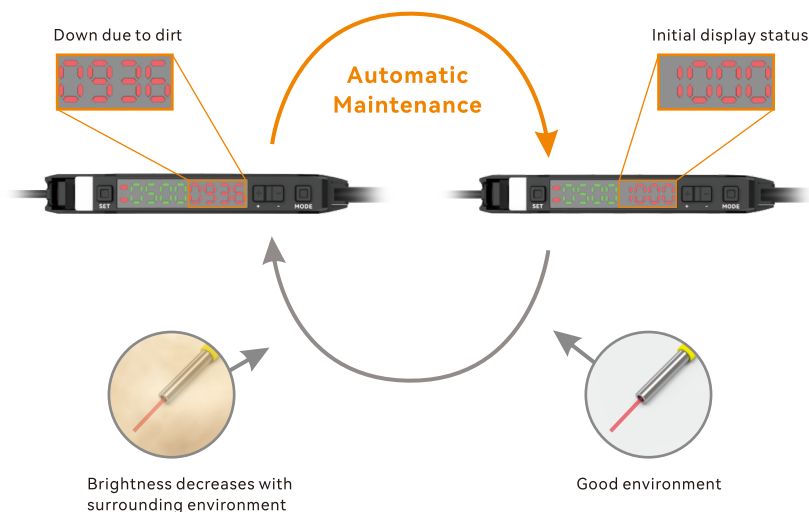
The dual "ASC" feature enables it to achieve threshold automatic adjustment.

When the dust dissipates, the sensor automatically adjusts the threshold without the need for manual teaching.



The light intensity may attenuate due to dust, and when it decreases below the set threshold, the sensor must be re-taught to adjust the parameter value in order to function properly.

The sensor can monitor the light intensity in real-time and automatically adjust the value to the optimal level based on changes in light intensity.



2. Automatic maintenance, maintaining high-precision detection status

When the sensor detects a decrease in received light intensity due to dirt or other reasons, it will restore the sensor to its initial display state.

Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

Guidance

Fiber amplifiers
Standard

Fiber components

Regular type
Array-type
Flat bracket type
Side-view type
High flexible type
High temperature resistant
Small spot type
Combination type
High end type

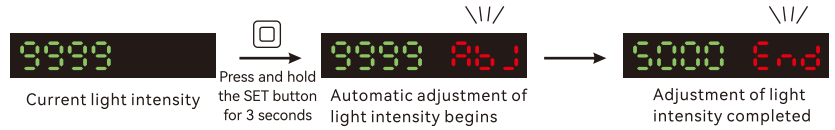
Fiber lens
Fiber lens

Product Highlights

Fiber Optic Amplifier

Suppressing Light Saturation through Simple Teaching

Strong light can lead to decreased contrast. In such cases, simply adjust to the appropriate brightness by pressing the SET button.



※Light intensity values in saturation state: 3000 (response speed: 1-HS/2-FS): 9999 (response speed: 3-ST~7-EL)

※You can repeat the above steps to set up the function of suppressing saturation.

※To cancel the function of suppressing saturation: Change the setting value of parameter "4-13. Light Intensity" from "Adj" to "IIIIU/IIIIJ/1J".

Rich and Convenient Operation Features



1.External Calibration Input

The sensor can be calibrated from a PLC or other external devices, allowing for periodic teaching, shutting off light emission input, synchronous input, count reset input, and other functions.

This ensures stable detection even in harsh environments.

Additionally, it can provide a low brightness signal in cases of severe dust, ensuring reliable performance.

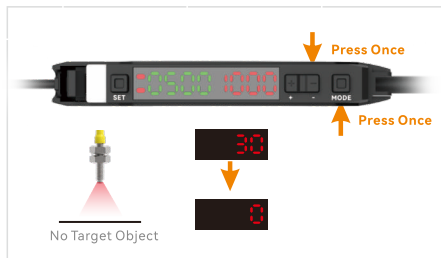
2.One-Key Completion of Two-Point Teaching

Simply press the SET button once with and once without the target object to complete the setup.



3.Zero Point Drift

Reset the display value to zero by toggling the status to "on" in the menu **0-56**.



Zero Point Setting

0-56 off

Various Delay Functions and Setting of Delay Time

off	Do Not Execute Zero Point Setting
on	Execute Zero Point Setting

The main display shows the current light intensity value as 0;

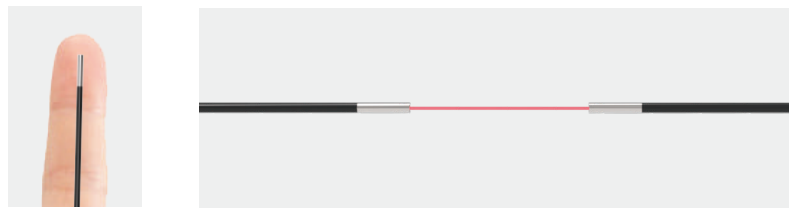
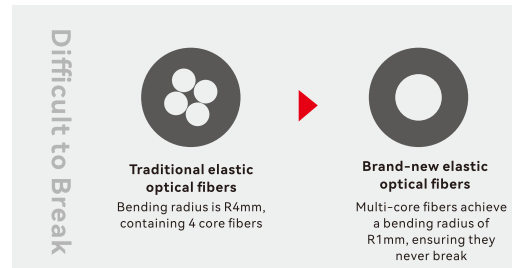
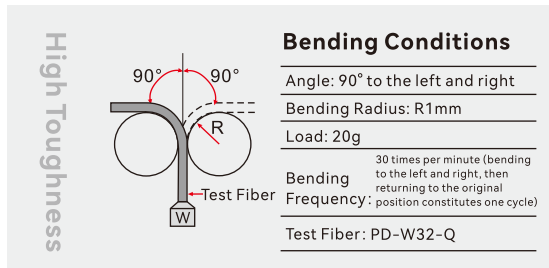
The threshold displayed on the sub-display also changes accordingly, showing the value after offsetting the current light intensity value

Zero point setting is ineffective in percentage display and edge detection modes.

Highly Elastic Optical Fiber *

A brand-new optical fiber material that is not affected by movement and interruptions, enabling flexible and dynamic operations.

* PD-W Series, PT-W Series



Miniature Optical Fiber with $\phi 1\text{mm}$ *

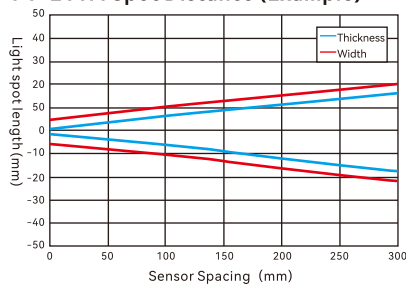
An ultra-fine and freely installable optical fiber, combined with high toughness of R1mm, enriching the installation scenarios of the product

* PT-R58 Series

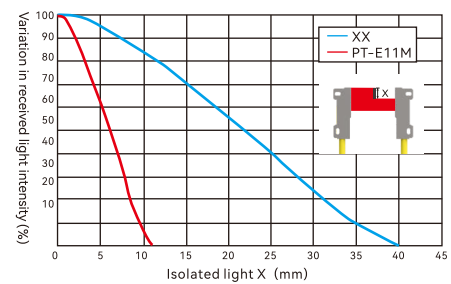
Broad Beam Length Optical Fiber

Light diffuses through a lens to cover a larger detection range

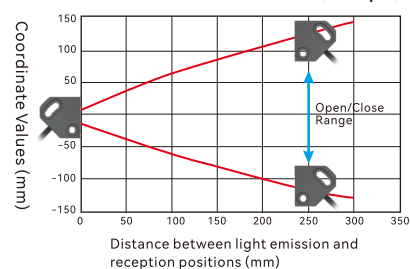
PT-E11M Spot Distance (Example)



Relationship between received and isolated light (Example)



PD-A10 Translation Characteristics (Example)



Array Optical Fiber

Multiple microfibers arranged in parallel, enabling large-area detection

Fiber Optic

Slot Sensors

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Safety door lock

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Fiber components

Regular 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

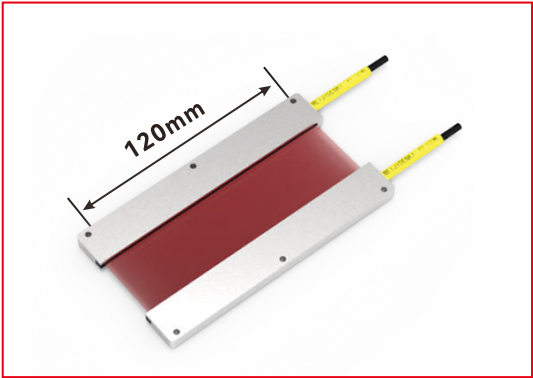
Fiber lens

Product Highlights

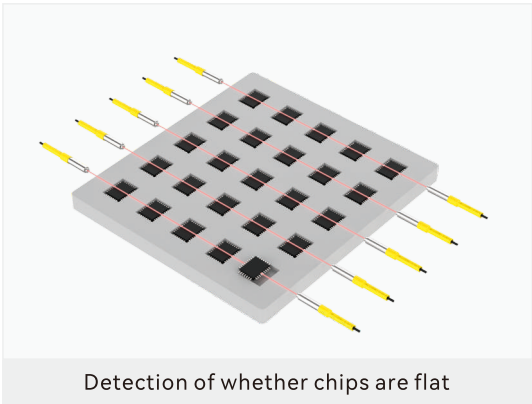
Fiber Optic Amplifier

Large Area
Optical Fiber*

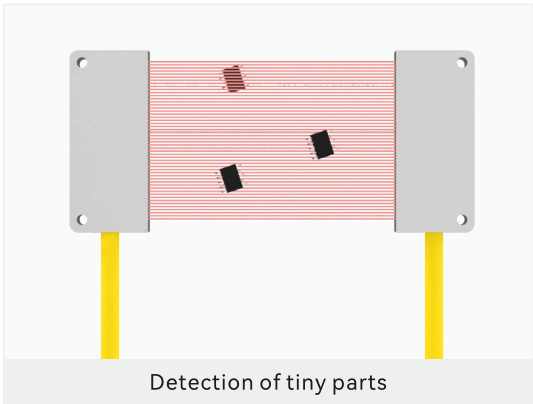
Maximum area width up to 120mm
* PT-120ML Series



Application Scenarios



Detection of whether chips are flat



Detection of tiny parts

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Fiber lens



PE1 Standard Dual Digital Fiber Amplifier

- Automatic light compensation technology and great adaptability for less maintenance.
- Six adjustable response speeds, up to 50μs small hysteresis ;
- High power mode for longer detection distances.

P.A-07



Lens

- Offering a full range specifications that can replace most of the popular products in the market
- Thru-beam and diffuse reflection types are optional.

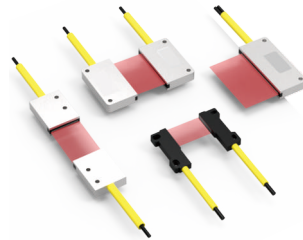
P.A-34



Regular Type

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

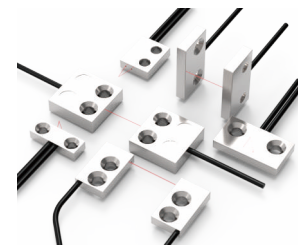
P.A-09



Array-type

- Suitable for moving object detection
- To detect unclear position objects

P.A-17



Flat Bracket Type

- Flexible installation, easy to fix
- Suitable for limited space

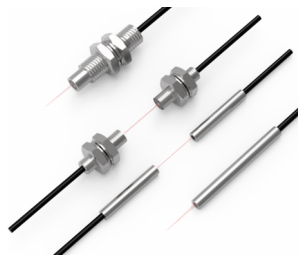
P.A-21



Side-view Type

- To detect objects in narrow space
- Easy access to detected objects with high precision

P.A-23



High Elasticity Type

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

P.A-25



High Temperature Resistant Type

- Heat resistant stainless steel jacket, strong chemical resistance
- Withstand temperatures up to 350°C.

P.A-27



Small Spot Type

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

P.A-29



Combination Type

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

P.A-29



High End Type

- Pioneering hot melt leveling technology
- Metal protective cap design

P.A-31

Fiber Optic

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Fiber lens

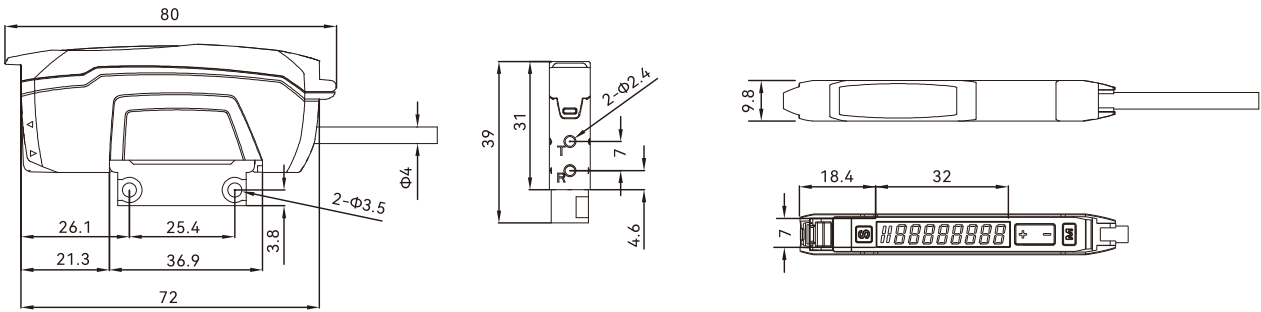
Fiber lens

PE1 Series

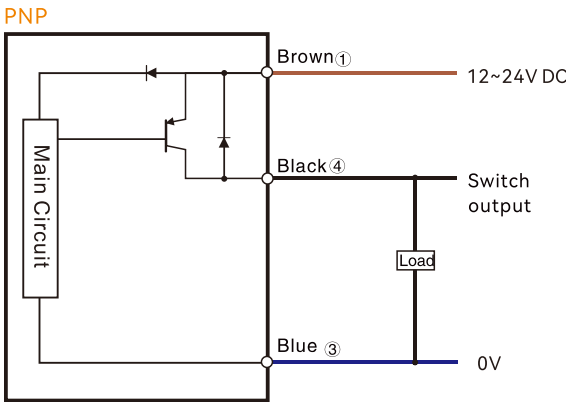
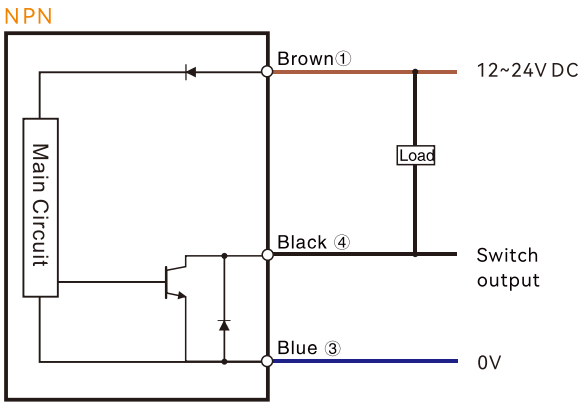


Fiber Optic		
Slot Sensors		
Photoelectric		
Laser		
Proximity		
Displacement		
Magnetic		
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Area		
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AI Image		
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Communication		
Accessories		
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Fiber amplifiers		
Standard		
Fiber components		
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High temperature resistant		
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Combination type		
High end type		
Fiber lens		
Fiber lens		

Basic Features	Working Principle	Photoelectric sensor	
	Housing Style	Slim block	
	Optical Working Principle	Depends on optical fiber	
	Light Source	Red LED 630nm (modulated)	
	Indicator Lights	Operating Status: Green LED, Output Status: Red LED	
	Display Screen	7-segment 8-digit display (Red: 4 digits, Green: 4 digits)	
	Switching Mode	Dark ON / Light ON switch	
	Output Mode	NPN open collector	PNP open collector
Electrical Data	Response Time	160us (1-HS)/320us (2-FS)/960us (3-ST)/1.92ms (4-LG)/3.84ms (5-PL)	
	Switching Frequency	≤6kHz	
	Operating Voltage	12-24V DC±10%	
	Current Consumption	≤40mA	
	Residual Voltage	<1.5V (100mA)	
	Load Current	≤100mA (24VDC)	
	Insulation Resistance	≥20MΩ between power terminal and housing (500VDC)	
	Withstand Voltage	1000VAC (50/60Hz) for 1 minute between power terminal and housing	
	Protection Circuit	Polarity reversal protection / Surge protection / Short circuit protection	
	Delay Function	OFF delay, ON delay, OFF delay, single pulse	
Environmental Conditions	Operating Temperature	-20℃~+50℃ (no freezing)	
	Storage Temperature	-30℃ ~ +70℃ (no freezing)	
	Operating Humidity	35~85%RH (no condensation)	
	Storage Humidity	35~95%RH (no condensation)	
	Ambient Illuminance	Incandescent light: below 3000 lux / Sunlight: below 10000 lux	
	Vibration Resistance	10~50Hz, double amplitude 1.5mm, 2 hours each in X, Y, Z	
Mechanical Data	Protection Rating	IP50	
	Connection Method	2M/3-core cable	
	Dimensions	9.8x39.0x80.0mm	
	Material	PC	
	Weight	0.05kg	
	Accessories	-	
	Model	PE1-N	PE1-P



Circuit diagram



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Fiber lens
Fiber lens

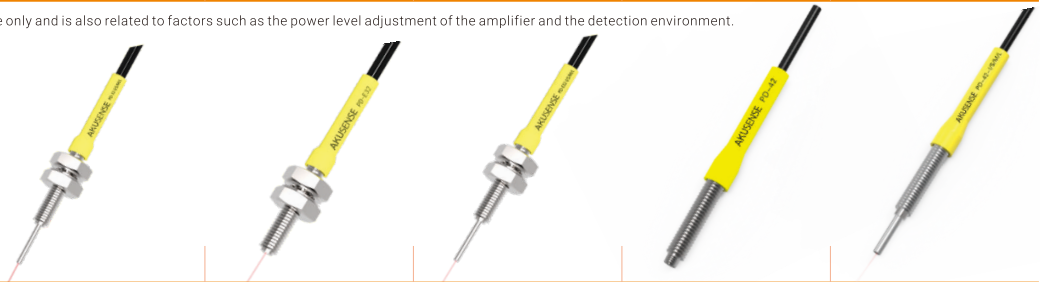
Regular Type Fiber Components

Diffuse reflection



Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Diffuse reflection				
	Housing Style	—	Short convex tube	Long convex tube	—	—
	Fiber Head Type	Ø1.5mm	Ø1.5mm	Ø2.0mm	Ø3.0mm	M3mm
	Sensing Distance	with PG1:50mm with PE1:60mm	with PG1:10mm with PE1:15mm	with PG1:10mm with PE1:20mm	with PG1:60mm with PE1:100mm	with PG1:60mm with PE1:100mm
	Fiber Length	2000mm	1000mm	2000mm		
	Fiber Diameter	Ø0.250mm	Ø0.125mm	Ø0.250mm	Ø0.500mm	
	Fiber Arrangement	Standard				
	Core Construction	Transmitter end: 2, Receiver end: 2		Transmitter end: 1, Receiver end: 1		
	Integrated Lens	No lens				
Minimum Object Diameter	—					
Mechanical Data	Bending Radius	2mm	10mm			15mm
	Material	Stainless steel	Stainless steel + Polyvinyl alcohol	Stainless steel		Stainless steel + Polyvinyl alcohol
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	—				
	Accessories	No installation parts				M3 nut + 2 washers
	Model	PD-R49Y	PD-R46	PD-E22-Q-I/S/M/L	PD-S32-Q	PD-32

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



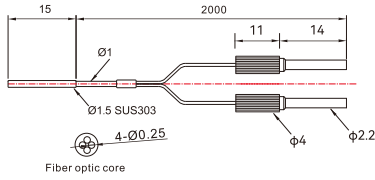
Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Diffuse reflection				
	Housing Style	Long convex tube	—	Long convex tube	Short convex tube	Long convex tube
	Fiber Head Type	M3			M4	
	Sensing Distance	with PG1:60mm with PE1:100mm	with PG1:10mm with PE1:15mm	with PG1:10mm with PE1:15mm	with PG1:50mm with PE1:100mm	with PG1:50mm with PE1:100mm
	Fiber Length	2000mm				
	Fiber Diameter	Ø0.5mm	Ø0.25mm		Ø0.5mm	
	Fiber Arrangement	Standard				
	Core Construction	Transmitter end: 1, Receiver end: 1				
	Integrated Lens	No lens				
	Minimum Object Diameter	—				
Mechanical Data	Bending Radius	15mm	10mm		15mm	
	Material	Stainless steel + Polyvinyl alcohol	Stainless steel		Stainless steel + Polyvinyl alcohol	
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	—				
	Accessories	M3 nut + 2 washers			No installation parts	
	Model	PD-32-I/S/M/L	PD-E32	PD-E32-I/S/M/L	PD-42	PD-42-I/S/M/L

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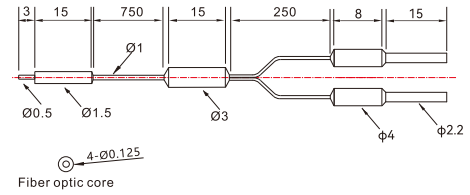
Unit: mm

Dimensions

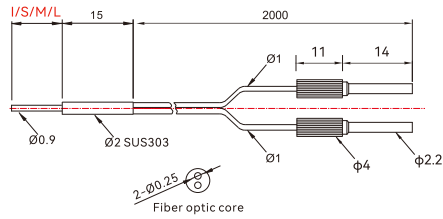
PD-R49Y



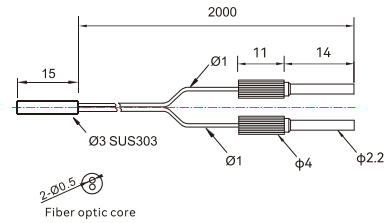
PD-R46



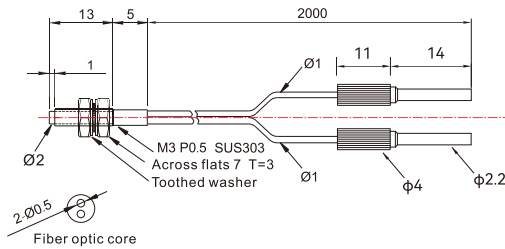
PD-E22-Q-I/S/M/L



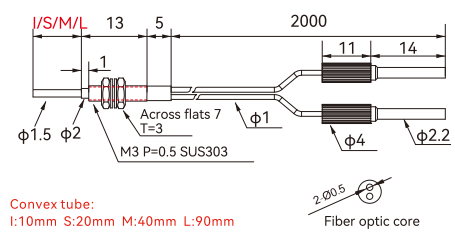
PD-S32-Q



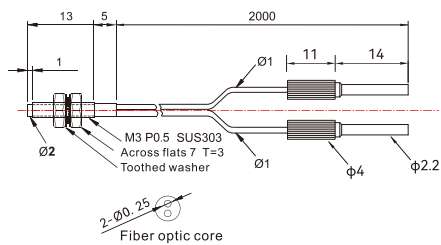
PD-32



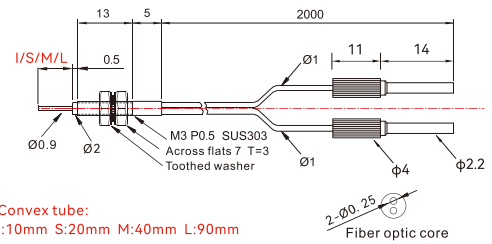
PD-32-I/S/M/L



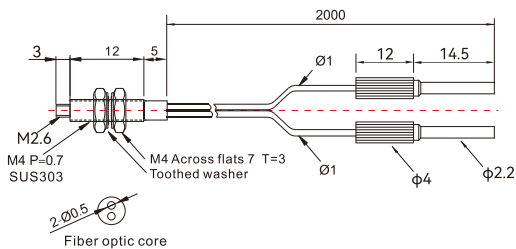
PD-E32



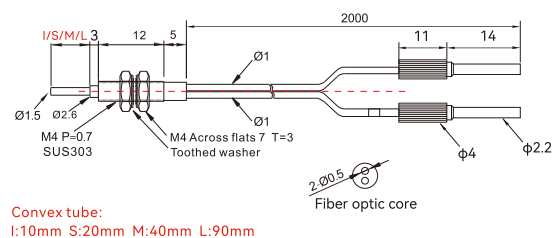
PD-E32-I/S/M/L



PD-42



PD-42-I/S/M/L



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Fiber lens

Fiber lens

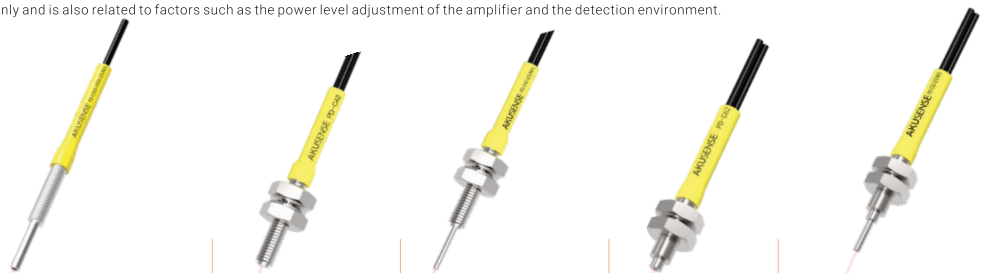
Regular Type Fiber Components

Diffuse reflection



Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Diffuse reflection				
	Housing Style	Short convex tube	Long convex tube	–	Long convex tube	–
	Fiber Head Type	M6mm		M3mm	Ø3.0mm	M3mm
	Sensing Distance	with PG1:200mm with PE1:250mm	with PG1:200mm with PE1:250mm	with PG1:100mm with PE1:170mm	with PG1:10mm with PE1:20mm	with PG1:100mm with PE1:130mm
	Fiber Length	2000mm		2000mm		
	Fiber Diameter	Ø1mm		Transmitter end:Ø0.5mm Receiver end:Ø0.265mm	Ø0.265mm	Transmitter end:Ø0.5mm Receiver end:Ø0.25mm
	Fiber Arrangement	Standard		Coaxial Optical Devices	Standard	Coaxial Optical Devices
	Core Construction	Transmitter end:1, Receiver end:1		Transmitter end:1, Receiver end:8	Transmitter end:1, Receiver end:1	Transmitter end:1, Receiver end:8
	Integrated Lens	No lens				
	Minimum Object Diameter	–				
	Bending Radius	25mm		2mm	4mm	15mm
Mechanical Data	Material	Stainless steel + Polyvinyl alcohol			–	Stainless steel
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	–				
	Accessories	No installation parts	M6 nut + 2 washers		No installation parts	
	Model	PD-62	PD-62-I/S/M/L	PD-L35GA (HOT)	PD-G45Y	PD-C310-35FA

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



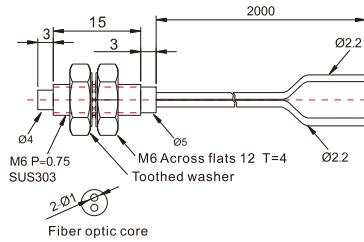
Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Diffuse reflection				
	Housing Style	Long convex tube	-	Long convex tube	Short convex tube	Long convex tube
	Fiber Head Type	M3mm	M4mm		M6mm	
	Sensing Distance	with PG1:100mm with PE1:130mm	with PG1:100mm with PE1:160mm	with PG1:100mm with PE1:160mm	with PG1:220mm with PE1:300mm	with PG1:220mm with PE1:300mm
	Fiber Length	1000mm	2000mm			
	Fiber Diameter	Transmitter end:Ø0.5mm, Receiver end:Ø0.25mm			Transmitter end:Ø1mm, Receiver end:Ø0.25mm	
	Fiber Arrangement	Coaxial Optical Devices				
	Core Construction	Transmitter end:1, Receiver end:8	Transmitter end:1, Receiver end:9		Transmitter end:1, Receiver end:16	
	Integrated Lens	No lens				
	Minimum Object Diameter	-				
Mechanical Data	Bending Radius	15mm			25mm	
	Material	Stainless steel				
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	-				
	Accessories	No installation parts	M4 nut + 2 washers		M6 nut + 2 washers	
	Model	PD-C310-35FA-I/S/M/L	PD-C42 	PD-C42-I/S/M/L	PD-C62	PD-C62-I/S/M/L

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

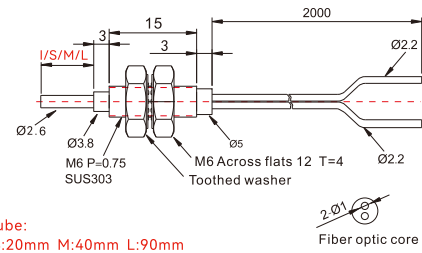
Unit: mm

Dimensions

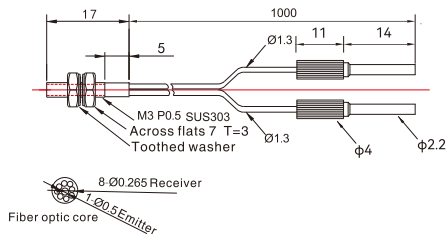
PD-62



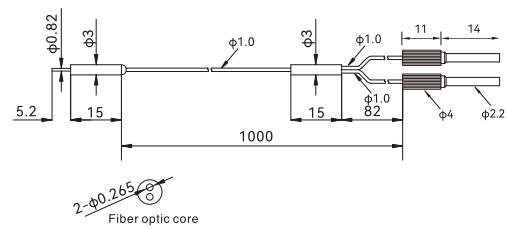
PD-62-I/S/M/L



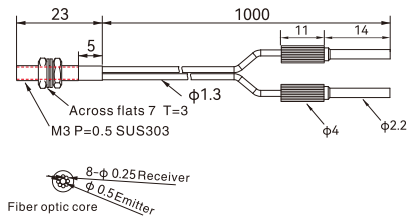
PD-L35GA



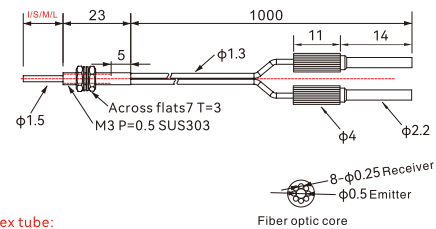
PD-G45Y



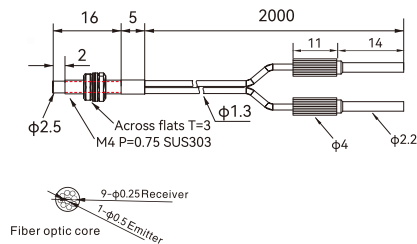
PD-C310-35FA



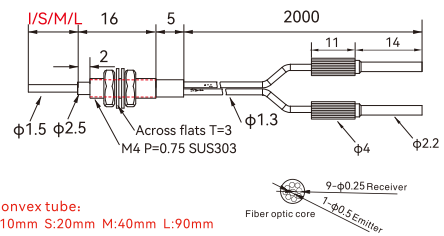
PD-C310-35FA-I/S/M/L



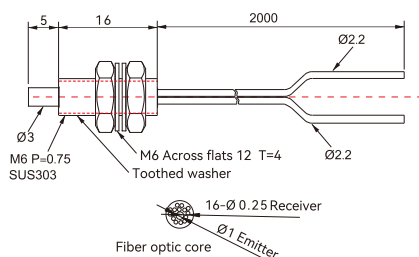
PD-C42



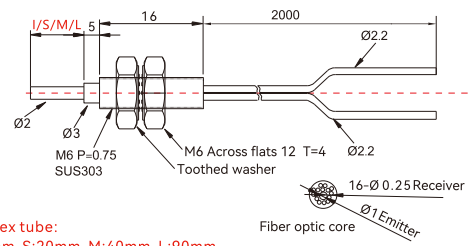
PD-C42-I/S/M/L



PD-C62



PD-C62-I/S/M/L



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Fiber amplifiers

Standard

Fiber components

Regular 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

Regular Type Fiber Components

Diffuse reflection



Basic Features	Working Principle	Fiber optic components	
	Optical Working Principle	Diffuse reflection	
	Housing Style	Right-angle type	Right-angle type, short convex tube
	Fiber Head Type	M3mm	M4mm
	Sensing Distance	with PG1:70mm with PE1:120mm	with PG1:60mm with PE1:100mm
	Fiber Length	2000mm	
	Fiber Diameter	Transmitter end:Ø0.5mm, Receiver end:Ø0.25mm	
	Fiber Arrangement	Coaxial Optical Devices	
	Core Construction	Transmitter end:1, Receiver end:9	
	Integrated Lens	No lens	
	Minimum Object Diameter	-	
	Bending Radius	5mm	
Mechanical Data	Material	-	
	Fiber Can Be Cut	Can be cut with fiber cutter	
	Operating Environment Temperature	-	
	Accessories	M3 nut + 2 washers	M4 nut + 2 washers
	Model	PD-C32TZ (HOT)	PD-C42TZ (HOT)

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Thru-beam

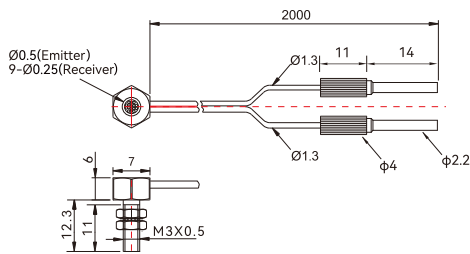
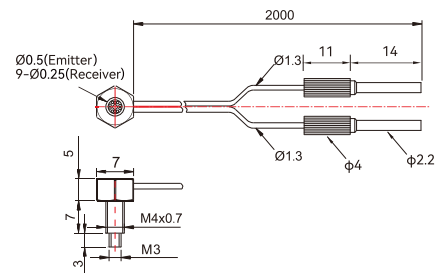
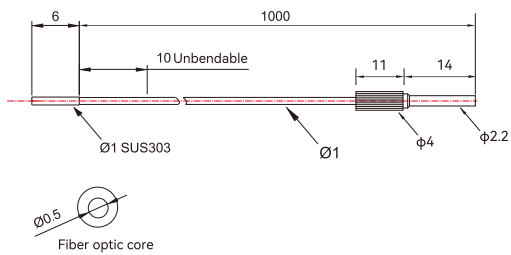
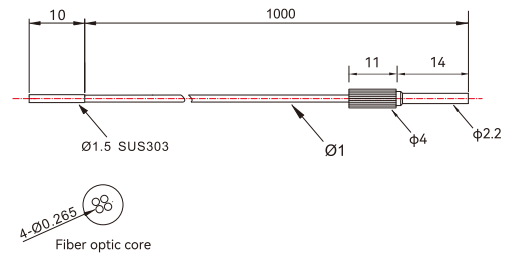
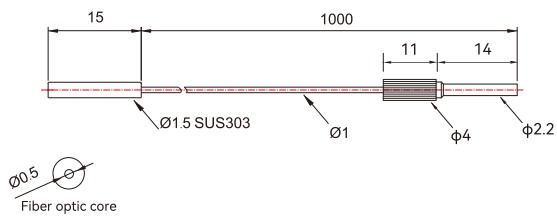
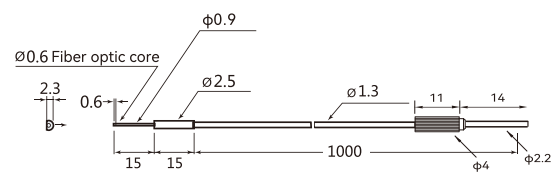


Basic Features	Working Principle	Fiber optic components		
	Optical Working Principle	Thru-beam		
	Housing Style	-		Right-angle type, long convex tube
	Fiber Head Type	Ø1.0mm	Ø1.5mm	Ø2.5mm
	Sensing Distance	with PG1:240mm with PE1:350mm	with PG1:190mm with PE1:310mm	with PG1:230mm with PE1:320mm
	Fiber Length	1000mm		
	Fiber Diameter	Ø0.5mm	Ø0.1mm	Ø0.5mm
	Fiber Arrangement	Standard		
	Core Construction	Transmitter end:1, Receiver end:1	Transmitter end:4, Receiver end:4	Transmitter end:1, Receiver end:1
	Integrated Lens	No lens		
	Minimum Object Diameter	-		
Mechanical Data	Bending Radius	10mm	15mm	25mm
	Material	Stainless steel + Polyvinyl alcohol		Stainless steel
	Fiber Can Be Cut	Can be cut with fiber cutter		
	Operating Environment Temperature	-		
	Accessories	No installation parts		
	Model	PT-R58V (HOT)	PT-R59	PT-S1520-Q
				PT-G32

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Unit: mm

Dimensions

PD-C32TZ**PD-C42TZ****PT-R58V****PT-R59****PT-S1520-Q****PT-G32****Fiber Optic**

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance**Fiber amplifiers**

Standard

Fiber components**Regular 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

Thru-beam



Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Thru-beam				
	Housing Style	Short convex tube	Long convex tube	Short convex tube	Long convex tube	Short convex tube
	Fiber Head Type	Ø3.0mm		M3mm		M4mm
	Sensing Distance	with PG1:240mm/with PE1:400mm		with PG1:800mm/with PE1:1400mm		with PG1:400mm with PE1:1400mm
	Fiber Length	1000mm		2000mm		
	Fiber Diameter	Ø0.5mm		Ø1mm		
	Fiber Arrangement	Standard				
	Core Construction	Transmitter end:1, Receiver end:1				
	Integrated Lens	No lens				
	Minimum Object Diameter	-				
Mechanical Data	Bending Radius	15mm		25mm		
	Material	Stainless steel		Stainless steel + Polyvinyl alcohol		
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	-				
	Accessories	No installation parts		M3 nut + 2 washers		M4 nut + 2 washers
	Model	PT-S31-Q	PT-S31-Q-I/S/M/L	PT-32	PT-32-I/S/M/L	PT-42 🔥

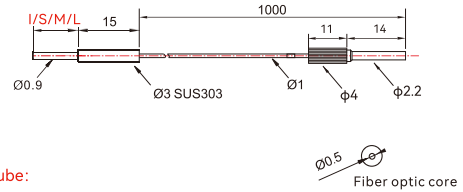
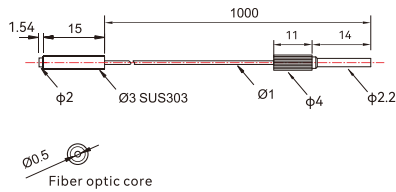
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Thru-beam				
	Housing Style	Long convex tube	Short convex tube	Long convex tube	Right-angle type	Right-angle type, short convex tube
	Fiber Head Type	M4mm	M6mm		M3mm	M4mm
	Sensing Distance	with PG1:400mm with PE1:1400mm	with PG1:600mm with PE1:1200mm	with PG1:600mm with PE1:1200mm	with PG1:560mm with PE1:730mm	with PG1:400mm with PE1:640mm
	Fiber Length	2000mm				
	Fiber Diameter	Ø1mm			Ø0.25mm	
	Fiber Arrangement	Standard			Coaxial Optical Devices	
	Core Construction	Transmitter end:1, Receiver end:1			Transmitter end:1, Receiver end:15	
	Integrated Lens	No lens				
	Minimum Object Diameter	-				
Mechanical Data	Bending Radius	25mm			5mm	15mm
	Material	Stainless steel + Polyvinyl alcohol				
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	-				
	Accessories	M4 nut + 2 washers	M6 nut + 2 washers		M3 nut + 2 washers	M4 nut + 2 washers
	Model	PT-42-I/S/M/L	PT-62	PT-62-I/S/M/L	PT-C32TZ	PT-C42TZ

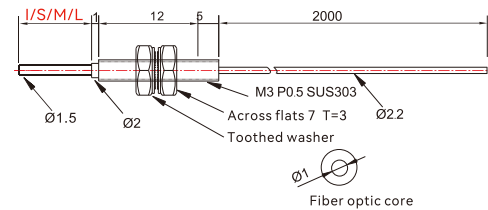
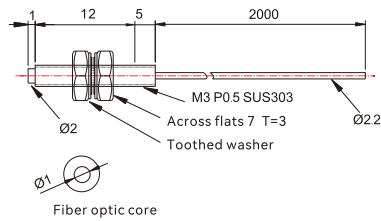
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

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



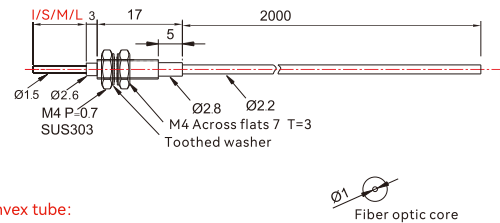
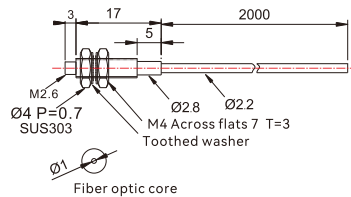
Convex tube:
I:10mm S:20mm M:40mm L:90mm

PT-32-I/S/M/L



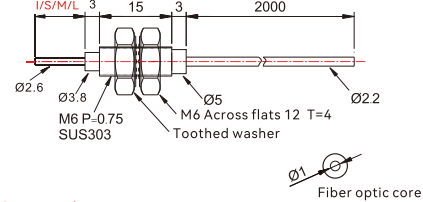
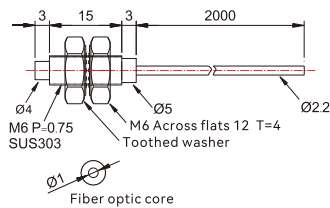
Convex tube:
I:10mm S:20mm M:40mm L:90mm

PT-42-I/S/M/L



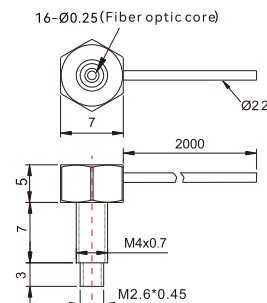
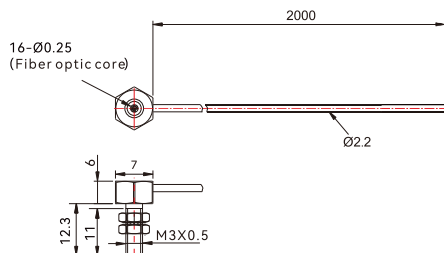
Convex tube:
I:10mm S:20mm M:40mm L:90mm

PT-62-I/S/M/L



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

PT-C42TZ



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
AI Image
Code Readers
Vibration
Temperature
RFID
Safety door lock
Pressure Switch
Communication
Accessories

Guidance
Fiber amplifiers
Standard

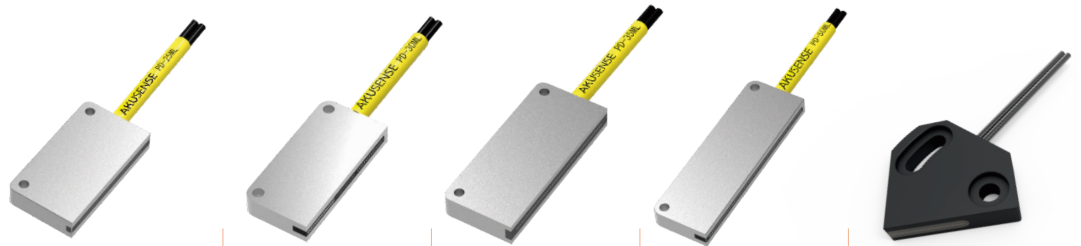
Fiber components
Regular type
Array-type
Flat bracket type
Side-view type
High flexible type
High temperature resistant
Small spot type
Combination type
High end type
Fiber lens
Fiber lens

Diffuse reflection



Basic Features	Working Principle	Fiber optic components			
	Optical Working Principle	Diffuse reflection			
	Housing Style	—	Right-angle type	Right-angle type	—
	Fiber Head Type	Without drum			
	Sensing Distance	with PG1:80mm/with PE1:110mm	with PG1:110mm/with PE1:160mm	with PG1:150mm/with PE1:240mm	with PG1:200mm/with PE1:250mm
	Fiber Length	2000mm			
	Fiber Diameter	Ø0.25mm			
	Fiber Arrangement	Grating			
	Core Construction	Transmitter end:9, Receiver end:9		Transmitter end:16, Receiver end:16	
	Integrated Lens	No lens			
	Minimum Object Diameter	Ø0.05mm			
Mechanical Data	Bending Radius	15mm		5mm	
	Material	Aluminum + Polyvinyl Alcohol			
	Fiber Can Be Cut	Can be cut with fiber cutter			
	Operating Environment Temperature	—			
	Accessories	No installation parts			
	Model	PD-10ML	PD-15ML-D	PD-20ML-S	PD-20ML

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



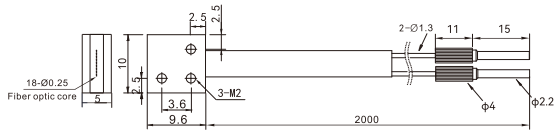
Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Diffuse reflection				
	Housing Style	Right-angle type				—
	Fiber Head Type	Without drum				
	Sensing Distance	with PG1:120mm with PE1:190mm	with PG1:180mm with PE1:210mm	with PG1:180mm with PE1:210mm	with PG1:160mm with PE1:200mm	with PG1:110mm with PE1:170mm
	Fiber Length	2000mm				
	Fiber Diameter	Ø0.25mm				
	Fiber Arrangement	Grating				
	Core Construction	Transmitter end:16, Receiver end:16				—
	Integrated Lens	No lens				
Mechanical Data	Minimum Object Diameter	Ø2mm	Ø4mm	Ø6mm	Ø10mm	Ø0.05mm
	Bending Radius	5mm				25mm
	Material	Aluminum + Polyvinyl Alcohol				Aluminum
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	—				
	Accessories	No installation parts				
	Model	PD-25ML	PD-30ML	PD-35ML	PD-50ML	PD-A10

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

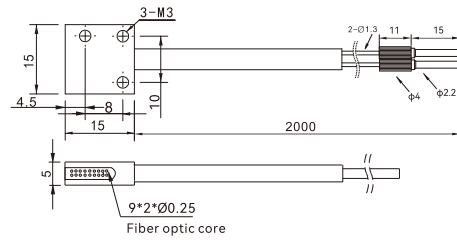
Unit: mm

Dimensions

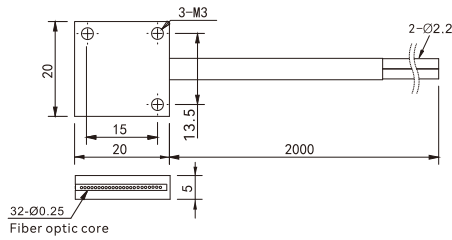
PD-10ML



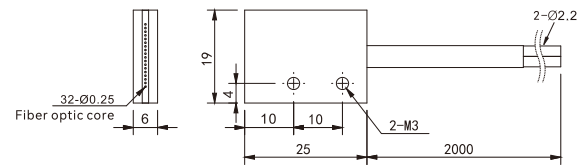
PD-15ML-D



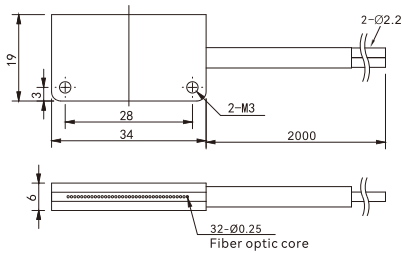
PD-20ML-S



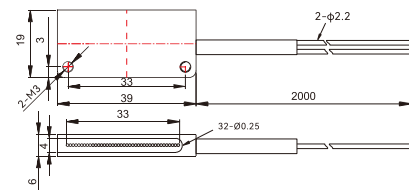
PD-20ML



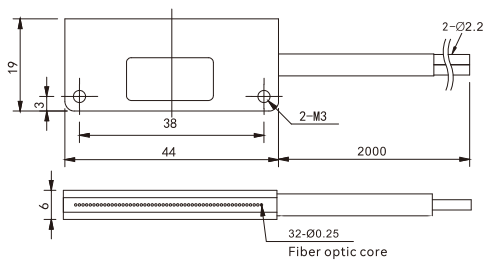
PD-25ML



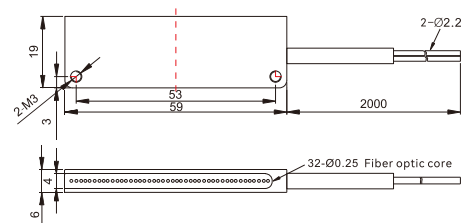
PD-30ML



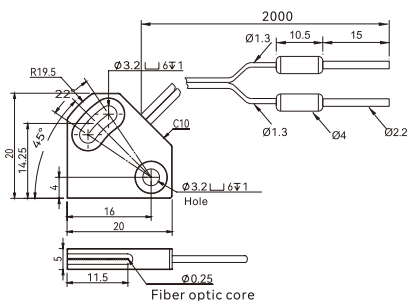
PD-35ML



PD-50ML



PD-A10



Fiber Optic

- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

Fiber amplifiers

Standard

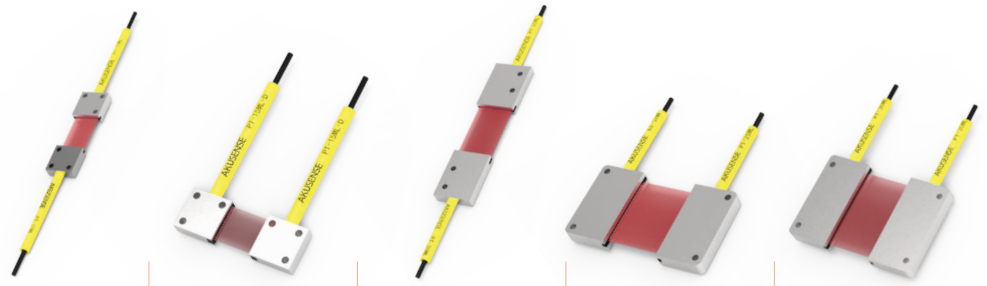
Fiber components

- Regular 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

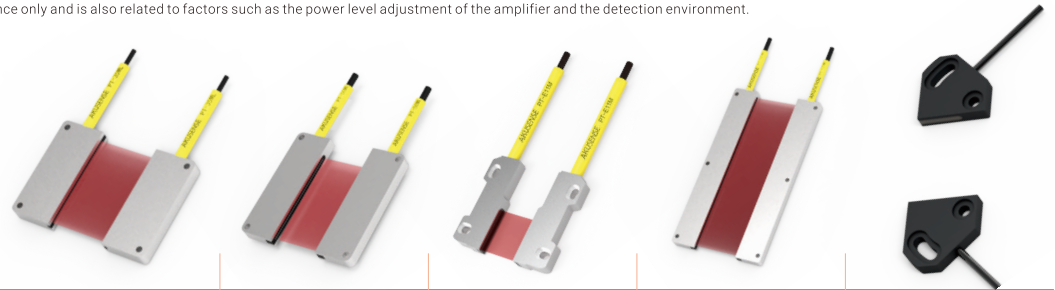
Fiber lens

Thru-beam



Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Thru-beam				
	Housing Style	—	Right-angle type	—	Right-angle type	
	Fiber Head Type	Without drum				
	Sensing Distance	with PG1:520mm with PE1:760mm	with PG1:580mm with PE1:790mm	with PG1:970mm with PE1:1100mm	with PG1:920mm with PE1:1170mm	with PG1:880mm with PE1:1220mm
	Fiber Length	2000mm				
	Fiber Diameter	Ø0.25mm			Ø0.265mm	Ø0.25mm
	Fiber Arrangement	Grating				
	Core Construction	Transmitter end: 16, Receiver end: 16		Transmitter end: 32, Receiver end: 32		
	Integrated Lens	No lens				
	Minimum Object Diameter	Ø0.1mm	Ø0.5mm		Ø2mm	Ø3mm
Mechanical Data	Bending Radius	5mm		15mm		
	Material	Aluminum + Polyvinyl Alcohol		Aluminum+PVC		
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	—				
	Accessories	No installation parts				
	Model	PT-10ML	PT-15ML-D	PT-20ML	PT-25ML	PT-30ML 

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

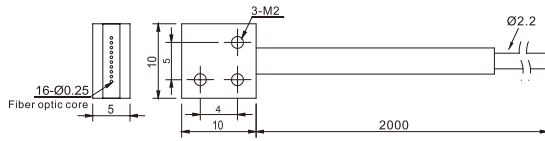


Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Thru-beam				
	Housing Style	Right-angle type				—
	Fiber Head Type	Without drum				
	Sensing Distance	with PG1:930mm with PE1:1280mm	with PG1:880mm with PE1:1170mm	with PG1:420mm with PE1:640mm	with PG1:950mm with PE1:1140mm	with PG1:520mm with PE1:800mm
	Fiber Length	2000mm				
	Fiber Diameter	Ø0.250mm		—	Ø0.250mm	
	Fiber Arrangement	Grating				
	Core Construction	Transmitter end:32, Receiver end:32		—	Transmitter end:32, Receiver end:32	—
	Integrated Lens	No lens				
	Minimum Object Diameter	Ø4mm	Ø5mm	Ø1mm	Ø30mm	Ø0.05mm
Mechanical Data	Bending Radius	15mm		25mm	15mm	25mm
	Material	Aluminum+PVC		Aluminum	Aluminum+PVC	—
	Fiber Can Be Cut	Can be cut with fiber cutter				
	Operating Environment Temperature	—				
	Accessories	No installation parts				
	Model	PT-35ML	PT-50ML	PT-E11M 	PT-120ML	PT-A10

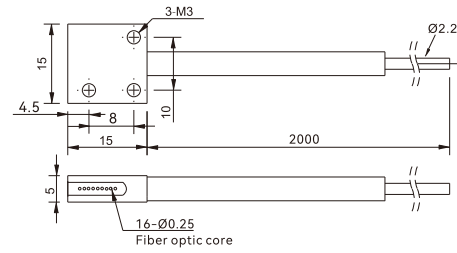
Unit: mm

Dimensions

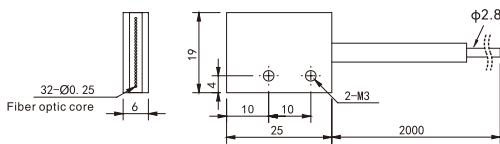
PT-10ML



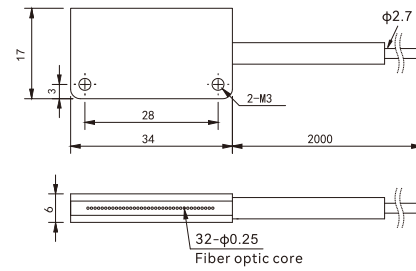
PT-15ML-D



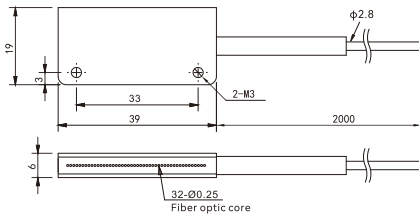
PT-20ML



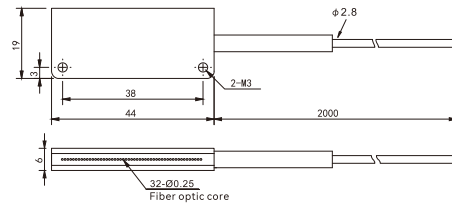
PT-25ML



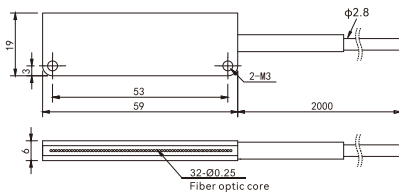
PT-30ML



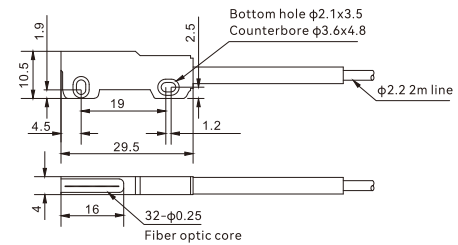
PT-35ML



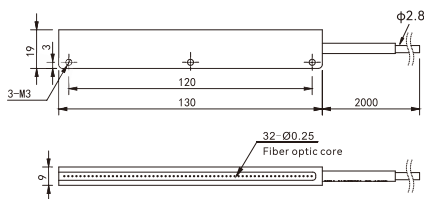
PT-50ML



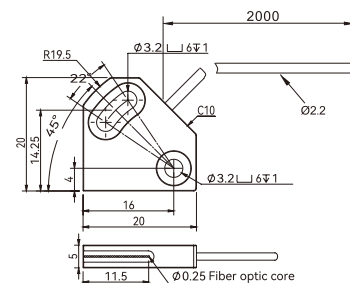
PT-E11M



PT-120ML



PT-A10



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Fiber amplifiers

Standard

Fiber components

Regular type

Array-type

Flat bracket type

Side-view type

High flexible type

High temperature resistant

Small spot type

Combination type

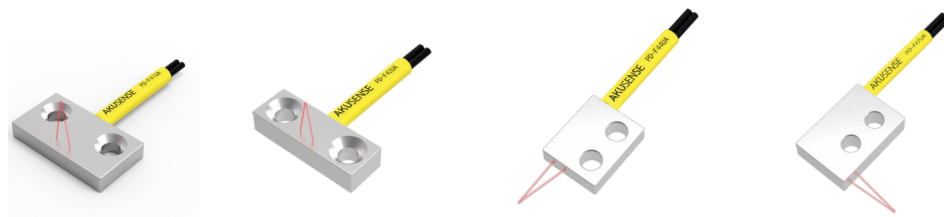
High end type

Fiber lens

Fiber lens

Flat bracket type Fiber Components

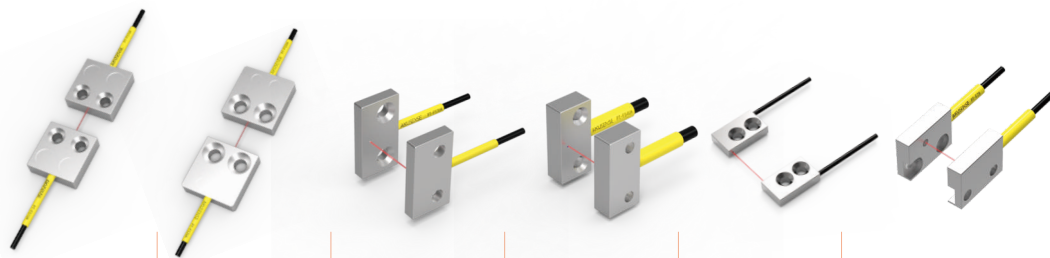
Diffuse reflection



Basic Features	Working Principle	Fiber optic components			
	Optical Working Principle	Diffuse reflection			
	Housing Style	Right-angle type		—	Right-angle type
	Fiber Head Type	Without drum			
	Sensing Distance	with PG1:50mm/with PE1:80mm	with PG1:170mm/with PE1:230mm	with PG1:80mm/with PE1:130mm	with PG1:60mm/with PE1:110mm
	Fiber Length	1000mm	2000mm	1000mm	
	Fiber Diameter	Ø0.5mm			
	Fiber Arrangement	Standard			
	Core Construction	Transmitter end:1, Receiver end:1			
	Integrated Lens	No lens			
	Minimum Object Diameter	Ø0.05mm			
Mechanical Data	Bending Radius	2mm			
	Material	Stainless steel + Polyvinyl alcohol			
	Fiber Can Be Cut	Can be cut with fiber cutter			
	Operating Environment Temperature	-			
	Accessories	No installation parts			
	Model	PD-F41UA	PD-F42UA	PD-F44UA	PD-F47UA

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Thru-beam



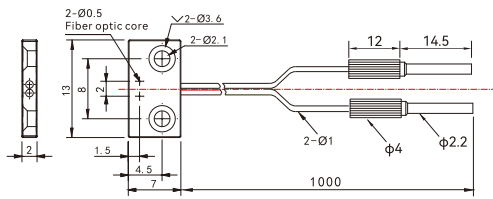
Basic Features	Working Principle	Fiber optic components					
	Optical Working Principle	Thru-beam					
	Housing Style	—		Right-angle type			
	Fiber Head Type	Without drum					
	Sensing Distance	with PG1:250mm with PE1:450mm	with PG1:690mm with PE1:1120mm	with PG1:130mm with PE1:200mm	with PG1:780mm with PE1:1280mm	with PG1:250mm with PE1:420mm	with PG1:730mm with PE1:1020mm
	Fiber Length	1000mm	2000mm	1000mm	2000mm	1000mm	
	Fiber Diameter	Ø0.5mm	Ø1mm	Ø0.5mm	Ø1mm	Ø0.5mm	Transmitter end:Ø1mm Receiver end:Ø0.25mm
	Fiber Arrangement	Standard					
	Core Construction	Transmitter end:1, Receiver end: 1					Transmitter end:1 Receiver end: 7
	Integrated Lens	No lens					
	Minimum Object Diameter	Ø0.05mm					Ø0.1mm
	Mechanical Data	Bending Radius	2mm				
Material		Aluminum + Polyvinyl Alcohol		Stainless steel + Polyvinyl alcohol			Aluminum + Polyvinyl Alcohol
Fiber Can Be Cut		Can be cut with fiber cutter					
Operating Environment Temperature		—					
Accessories		No installation parts					
	Model	PT-F51UA	PT-F52UA	PT-F53UA	PT-F54UA 	PT-F57UA	PT-FZ8 

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

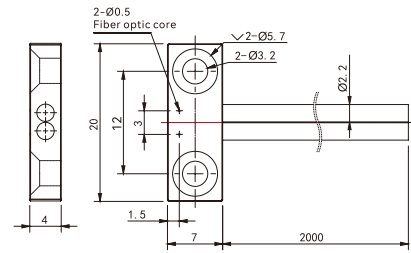
Unit: mm

Dimensions

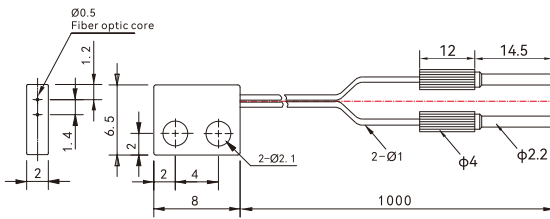
PD-F41UA



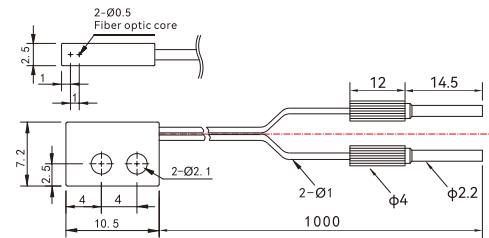
PD-F42UA



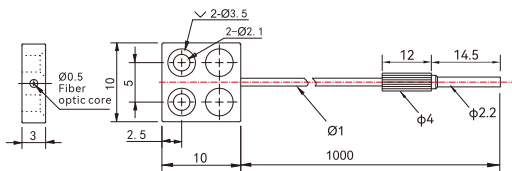
PD-F44UA



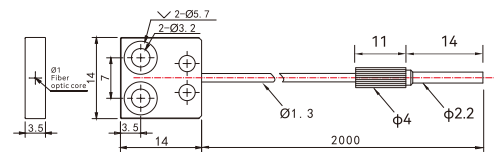
PD-F47UA



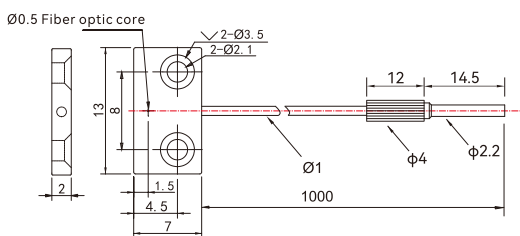
PT-F51UA



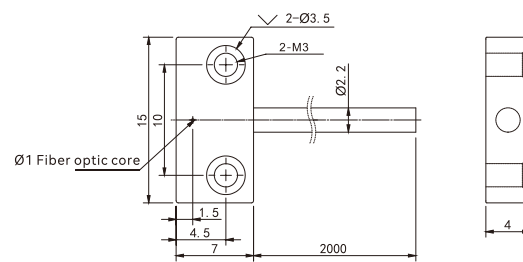
PT-F52UA



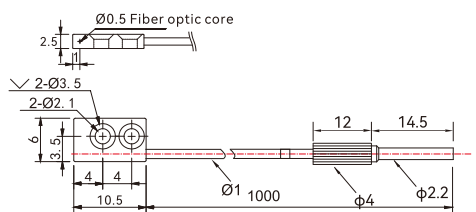
PT-F53UA



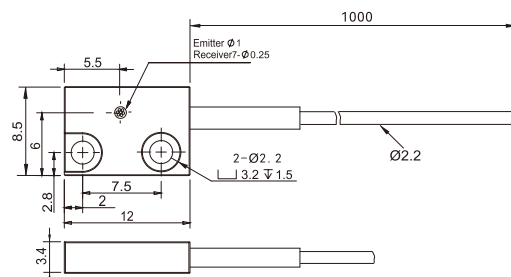
PT-F54UA



PT-F57UA



PT-FZ8



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Fiber amplifiers

Standard

Fiber components

Regular type

Array-type

Flat bracket type

Side-view type

High flexible type

High temperature resistant

Small spot type

Combination type

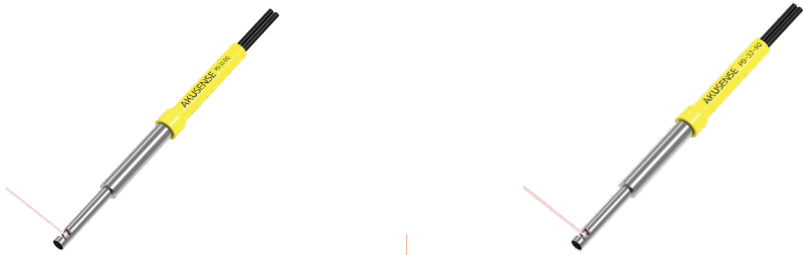
High end type

Fiber lens

Fiber lens

Side-view Type Fiber Components

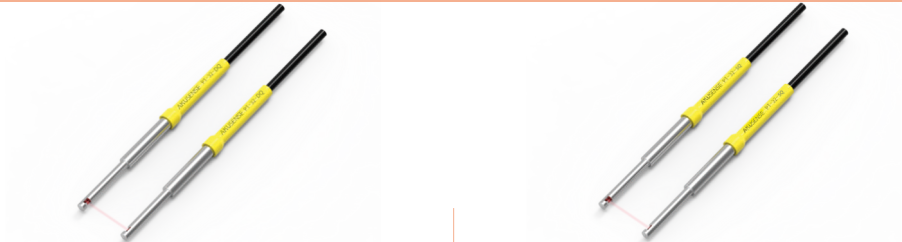
Diffuse reflection



Basic Features	Working Principle	Fiber optic components	
	Optical Working Principle	Diffuse reflection	
	Housing Style	Right-angle type, Long convex tube	
	Fiber Head Type	Ø3.0mm	
	Sensing Distance	with PG1:40mm/with PE1:120mm	with PG1:110mm/with PE1:130mm
	Fiber Length	2000mm	
	Fiber Diameter	Ø0.5mm	
	Fiber Arrangement	Standard	
	Core Construction	Transmitter end:1, Receiver end:1	
	Integrated Lens	No lens	
	Minimum Object Diameter	—	
	Bending Radius	25mm	10mm
Mechanical Data	Material	Stainless steel	
	Fiber Can Be Cut	Can be cut with fiber cutter	
	Operating Environment Temperature	—	
	Accessories	No installation parts	
	Model	PD-32-DQ	PD-32-SQ

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Thru-beam

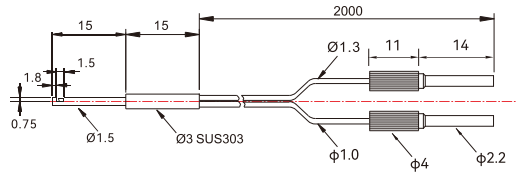


Basic Features	Working Principle	Fiber optic components	
	Optical Working Principle	Thru-beam	
	Housing Style	Right-angle type, long convex tube	
	Fiber Head Type	Ø3.0mm	Ø2.5mm
	Sensing Distance	with PG1:300mm/with PE1:440mm	with PG1:80mm/with PE1:140mm
	Fiber Length	2000mm	
	Fiber Diameter	Ø0.5mm	
	Fiber Arrangement	Standard	
	Core Construction	Transmitter end:1, Receiver end:1	
	Integrated Lens	No lens	
	Minimum Object Diameter	—	
	Bending Radius	25mm	10mm
Mechanical Data	Material	—	
	Fiber Can Be Cut	Can be cut with fiber cutter	
	Operating Environment Temperature	—	
	Accessories	No installation parts	
	Model	PT-32-DQ	PT-32-SQ

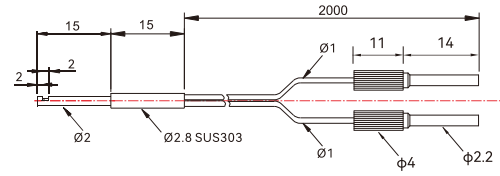
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Unit: mm

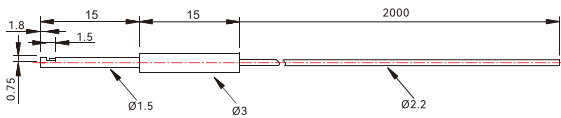
Dimensions

PD-32-DQ

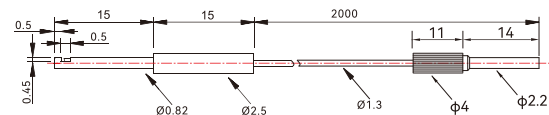
2-Ø0.5 Fiber optic core

PD-32-SQ

2-Ø0.5 Fiber optic core

PT-32-DQ

Ø0.5 Fiber optic core

PT-32-SQ

Ø0.5 Fiber optic core

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance**Fiber amplifiers**

Standard

Fiber components

Regular 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

High flexible type Fiber Components

Diffuse reflection



Basic Features	Working Principle	Fiber optic components			
	Optical Working Principle	Diffuse reflection			
	Housing Style	—			Short convex tube
	Fiber Head Type	Ø3.0mm		M3mm	M4mm
	Sensing Distance	with PG1:60mm with PE1:100mm	with PG1:40mm with PE1:80mm	with PG1:30mm with PE1:60mm	with PG1:40mm with PE1:50mm
	Fiber Length	2000mm		1000mm	2000mm
	Fiber Diameter	Ø0.5mm	Ø0.25mm		
	Fiber Arrangement	Standard			
	Core Construction	Transmitter end:1 Receiver end:1	Transmitter end:2, Receiver end:2		Transmitter end:4 Receiver end:4
	Integrated Lens	No lens			
	Minimum Object Diameter	—			
Mechanical Data	Bending Radius	10mm		4mm	
	Material	Stainless steel	Stainless steel + Polyvinyl alcohol	nickel-plated brass	Stainless steel
	Fiber Can Be Cut	Can be cut with fiber cutter			
	Operating Environment Temperature	—			
	Accessories	No installation parts		M3 nut + 2 washers	M4 nut + 2 washers
	Model	PD-W32-Q	PD-W48	PD-W69Y	PD-W68

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Thru-beam

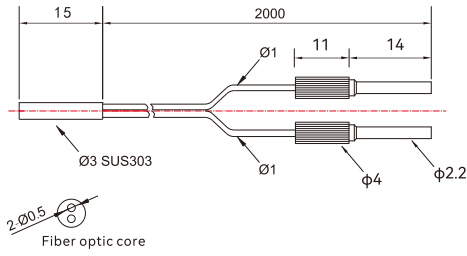
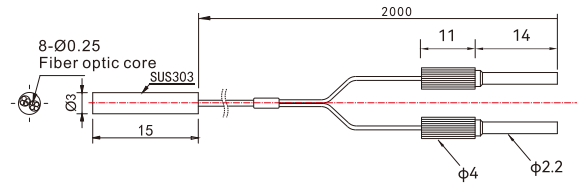
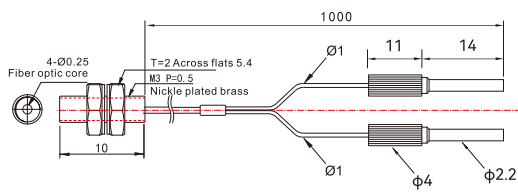
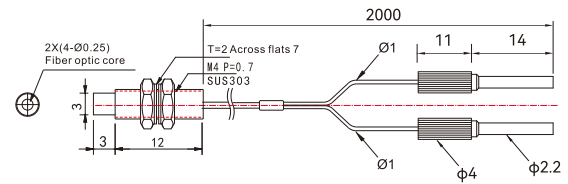
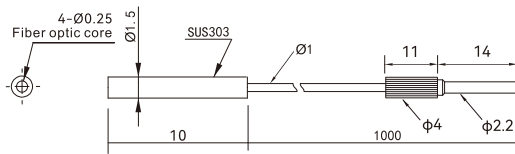
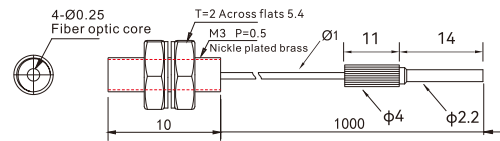
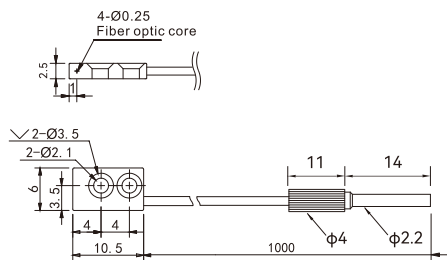


Basic Features	Working Principle	Fiber optic components		
	Optical Working Principle	Thru-beam		
	Housing Style	—		Right-angle type
	Fiber Head Type	Ø1.5mm	M3mm	Without drum
	Sensing Distance	with PG1:180mm/with PE1:300mm	with PG1:150mm/with PE1:230mm	—
	Fiber Length	1000mm		
	Fiber Diameter	Ø0.25mm		
	Fiber Arrangement	Standard		
	Core Construction	Transmitter end:2, Receiver end:2		Transmitter end:4, Receiver end:4
	Integrated Lens	No lens		
	Minimum Object Diameter	—		
Mechanical Data	Bending Radius	4mm		
	Material	—	Nickel-plated brass	—
	Fiber Can Be Cut	Can be cut with fiber cutter		
	Operating Environment Temperature	—		
	Accessories	No installation parts	M3 nut + 2 washers	No installation parts
	Model	PT-W59	PT-W79	PT-W57UF

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Unit: mm

Dimensions

PD-W32-Q**PD-W48****PD-W69Y****PD-W68****PT-W59****PT-W79****PT-W57UF****Fiber Optic**

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance**Fiber amplifiers**

Standard

Fiber components

Regular 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

High Temperature Resistant Type Fiber Components

Diffuse reflection



Basic Features	Working Principle	Fiber optic components					
	Optical Working Principle	Diffuse reflection					
	Housing Style	Short convex tube					
	Fiber Head Type	M4mm	M6mm	M4mm	M6mm	M4mm	M6mm
	Sensing Distance	with PG1:60mm with PE1:70mm	with PG1:250mm with PE1:360mm	with PG1:220/320mm with PE1:200/290mm	with PG1:220/200mm with PE1:310/300mm	with PG1:-/150mm with PE1:230/320mm	with PG1:150/210mm with PE1:260/370mm
	Fiber Length	2000mm		900/1900mm	1000/2000mm	900/1900mm	1000/2000mm
	Fiber Diameter	Ø0.5mm	Ø1mm	Ø1.5mm			
	Fiber Arrangement	Standard					
	Core Construction	Transmitter end:1, Receiver end:1					
	Integrated Lens	No lens					
	Minimum Object Diameter	-					
Mechanical Data	Bending Radius	10mm	25mm				
	Material	Stainless steel + Cross-linked polyethylene		Stainless steel + Polytetrafluoroethylene		Stainless steel	
	Fiber Can Be Cut	Can be cut with fiber cutter					
	Operating Environment Temperature	105℃	105℃	200℃		350℃	
	Accessories	M4 nut + 2 washers	M6 nut + 2 washers	M4 nut + 2 washers	M6 nut + 2 washers	M4 nut + 2 washers	M6 nut + 2 washers
	Model	PD-H42Y	PD-H62Y	PD-H41E/H42E	PD-H61E/H62E	PD-H41S/H42S	PD-H61S/H62S

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Thru-beam



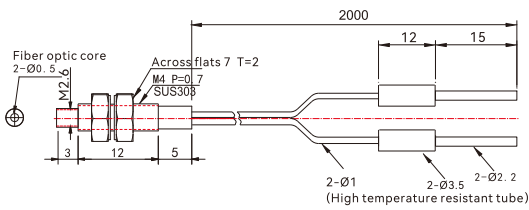
Basic Features	Working Principle	Fiber optic components		
	Optical Working Principle	Thru-beam		
	Housing Style	Short convex tube		
	Fiber Head Type	M4mm		
	Sensing Distance	with PG1:770mm/with PE1:930mm	with PG1:830/-mm/with PE1:1360/-mm	with PG1:600/700mm/with PE1:1300mm
	Fiber Length	2000mm	1000/2000mm	1000/2000mm
	Fiber Diameter	Ø1mm		
	Fiber Arrangement	Standard		
	Core Construction	Transmitter end:1, Receiver end:1		
	Integrated Lens	No lens		
	Minimum Object Diameter	-		
Mechanical Data	Bending Radius	25mm		
	Material	Stainless steel + Cross-linked polyethylene	Stainless steel + Polytetrafluoroethylene	Stainless steel
	Fiber Can Be Cut	Can be cut with fiber cutter		
	Operating Environment Temperature	105℃	200℃	350℃
	Accessories	M4 nut + 2 washers		
	Model	PT-H42Y	PT-H41E/H42E	PT-H41S/H42S

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

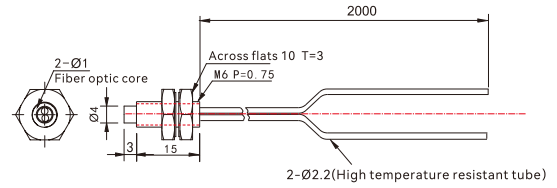
Unit: mm

Dimensions

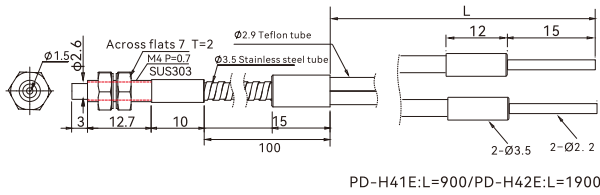
PD-H42Y



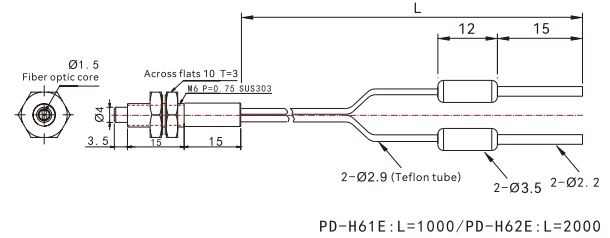
PD-H62Y



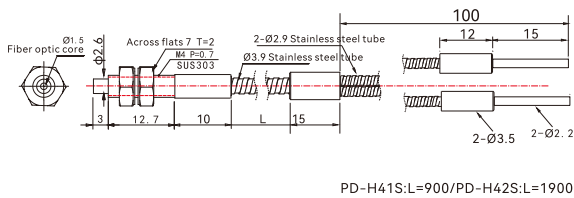
PD-H41E/H42E



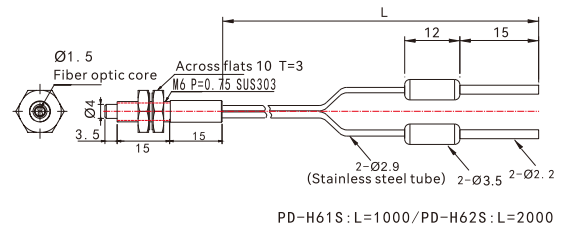
PD-H61E/H62E



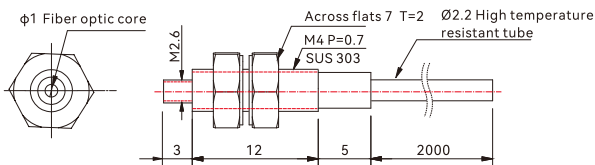
PD-H41S/H42S



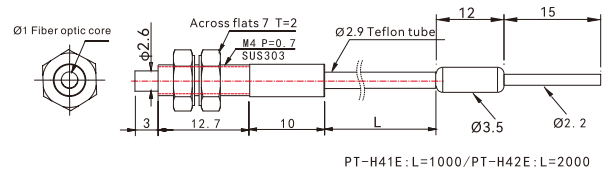
PD-H61S/H62S



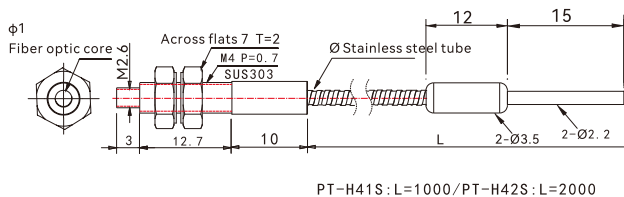
PT-H42Y



PT-H41E/H42E



PT-H41S/H42S



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Fiber amplifiers

Standard

Fiber components

Regular 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

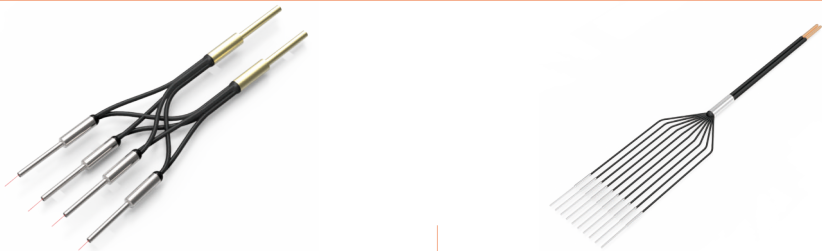
Small Spot Type



Basic Features	Working Principle	Fiber optic components	
	Optical Working Principle	Diffuse reflection	
	Housing Style	-	
	Fiber Head Type	Ø3.0mm	
	Sensing Distance	with PG1:20mm/with PE1:30mm	
	Fiber Length	500mm	
	Fiber Diameter	Ø1.7mm	
	Fiber Arrangement	Standard	
	Core Construction	Transmitter end:1, Receiver end:6	
	Integrated Lens	Built-in focusing lens	
	Minimum Object Diameter	-	
Mechanical Data	Bending Radius	15mm	
	Material	Aluminum + Polyvinyl Alcohol	
	Fiber Can Be Cut	Can be cut with fiber cutter	
	Operating Environment Temperature	-	
	Accessories	No installation parts	
	Model	PD-X20 HOT	

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Combination type



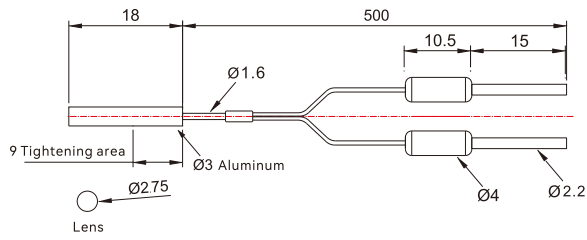
Basic Features	Working Principle	Fiber optic components	
	Optical Working Principle	Diffuse reflection	
	Housing Style	Long convex tube	
	Fiber Head Type	Ø3.0mm	Ø1.5mm
	Sensing Distance	with PG1:50mm/with PE1:100mm	with PG1:410mm/with PE1:550mm
	Fiber Length	300mm	1000mm
	Fiber Diameter	-	
	Fiber Arrangement	Standard	
	Core Construction	-	
	Integrated Lens	No lens	
	Minimum Object Diameter	-	
Mechanical Data	Bending Radius	-	
	Material	-	
	Fiber Can Be Cut	Can be cut with fiber cutter	
	Operating Environment Temperature	-	
	Accessories	No installation parts	
	Model	PD-S4Q3-30 Customizable	PD-S10Q1.5-100

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

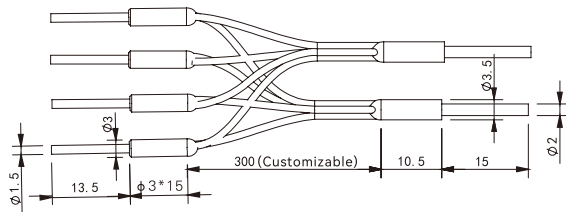
Unit: mm

Dimensions

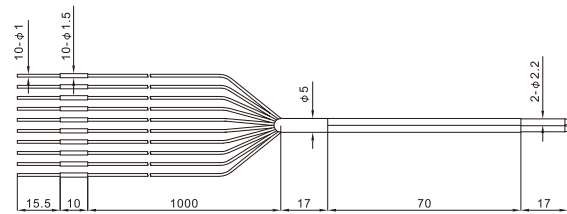
PD-X20



PD-S4Q3-30



PD-S10Q1.5-100



Fiber Optic

- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

Fiber amplifiers

Standard

Fiber components

- Regular 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

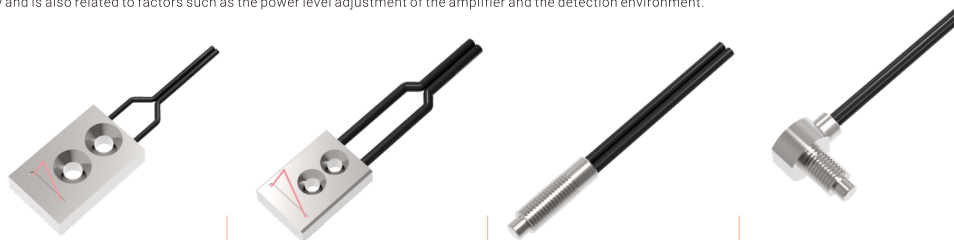
High End Type Fiber Components

Diffuse reflection



Basic Features	Working Principle	Fiber optic components			
	Optical Working Principle	Diffuse reflection			
	Housing Style	Long convex tube	Short convex tube		Long convex tube
	Fiber Head Type	Ø1.5mm	M3mm		
	Sensing Distance	with PG1:10mm with PE1:15mm	with PG1:70mm with PE1:110mm	with PG1:75mm with PE1:120mm	—
	Fiber Length	1000mm	2000mm		
	Fiber Diameter	Ø0.125mm	Ø0.5mm	Transmitter end:Ø0.5mm Receiver end:Ø0.25mm	Ø0.25mm
	Fiber Arrangement	Standard		Coaxial Optical Devices	Standard
	Core Construction	Transmitter end : 2 Receiver end : 2	Transmitter end : 1 Receiver end : 1	Transmitter end : 1 Receiver end : 10	Transmitter end : 1 Receiver end : 1
	Integrated Lens	No lens			
	Minimum Object Diameter	—			
Mechanical Data	Bending Radius	4mm	10mm	15mm	10mm
	Material	Poly(methyl methacrylate) + Fluorinated polymer			
	Fiber Can Be Cut	Can be cut with fiber cutter			
	Operating Environment Temperature	—			
	Accessories	No installation parts			
	Model	PD-R15 (HOT)	PD-R32 (HOT)	PD-RC32 (HOT)	PD-RE32-I/S/M/L (HOT)

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

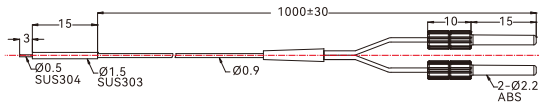


Basic Features	Working Principle	Fiber optic components			
	Optical Working Principle	Diffuse reflection			
	Housing Style	Right-angle type	Right-angle type	Short convex tube	Right-angle type, short convex tube
	Fiber Head Type	Without drum		M6mm	
	Sensing Distance	with PG1:10mm with PE1:15mm	—	with PG1:260mm with PE1:310mm	with PG1:180mm with PE1:230mm
	Fiber Length	2000mm			
	Fiber Diameter	Ø0.5mm	Ø1mm		
	Fiber Arrangement	Standard			
	Core Construction	Transmitter end:1, Receiver end:1			
	Integrated Lens	No lens			
	Minimum Object Diameter	—			
Mechanical Data	Bending Radius	15mm	25mm		2mm
	Material	Poly(methyl methacrylate) + Fluorinated polymer			
	Fiber Can Be Cut	Can be cut with fiber cutter			
	Operating Environment Temperature	—			
	Accessories	No installation parts			
	Model	PD-R38V 	PD-R38L 	PD-R62 	PD-R62TE 

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

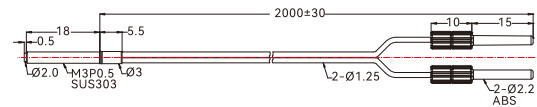
Unit: mm

PD-R15



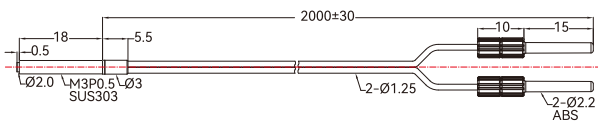
Ø0.125 Fiber core X4

PD-R32



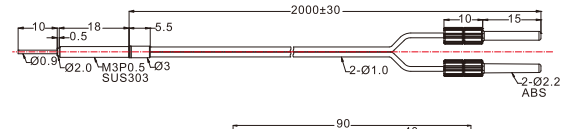
Ø0.5 Fiber core X2

PD-RC32

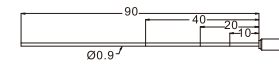


Ø0.5 Fiber core x1 (Emitter)
Ø0.25 Fiber core X10 (Receiver)

PD-RE32-I/S/M/L

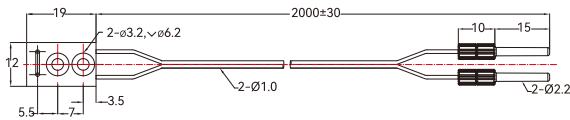


Ø0.25 Fiber core X2

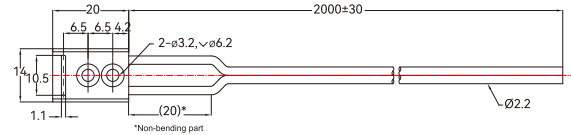


Convex tube:
L:10mm S:20mm M:40mm L:90mm

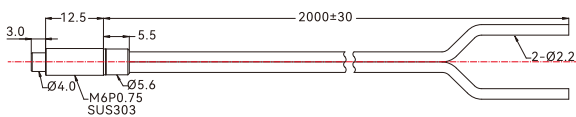
PD-R38V



PD-R38L

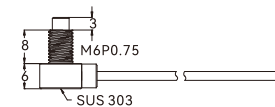
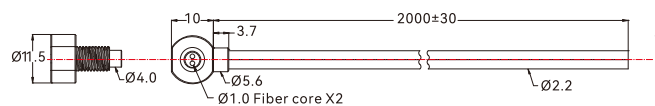


PD-R62

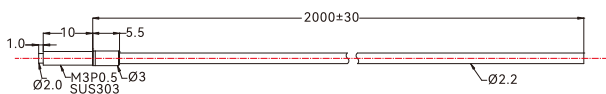


Ø1.0 Fiber core X2

PD-R62TE

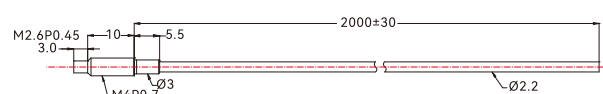


PT-R32



Ø1.0 Fiber core X1

PT-R42



Ø1.0 Fiber core X1

Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

AI Image

Code Readers

Vibration

Temperature

RFID

Safety door lock

Pressure Switch

Communication

Accessories

Guidance

Fiber amplifiers

Standard

Fiber components

Regular type

Array-type

Flat bracket type

Side-view type

High flexible type

High temperature resistant

Small spot type

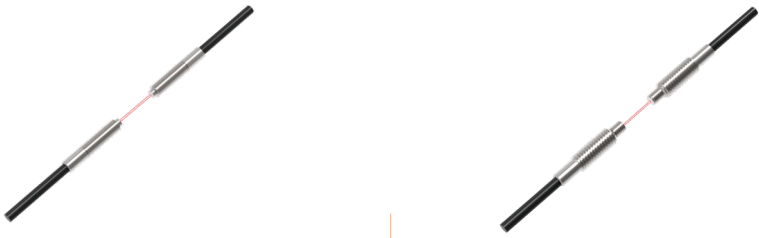
Combination type

High end type

Fiber lens

Fiber lens

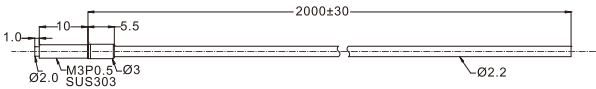
Thru-beam



Basic Features	Working Principle	Fiber optic components	
	Optical Working Principle	Thru-beam	
	Housing Style	Short convex tube	
	Fiber Head Type	M3mm	M4mm
	Sensing Distance	–	with PG1:820mm/with PE1:1170mm
	Fiber Length	2000mm	
	Fiber Diameter	Ø1mm	
	Fiber Arrangement	Standard	
	Core Construction	Transmitter end:1, Receiver end:1	
	Integrated Lens	No lens	
	Minimum Object Diameter	–	
	Bending Radius	25mm	
	Material	Poly(methyl methacrylate) + Fluorinated polymer	
	Fiber Can Be Cut	Can be cut with fiber cutter	
Mechanical Data	Operating Environment Temperature	–	
	Accessories	No installation parts	
	Model	PT-R32 (HOT)	PT-R42 (HOT)

Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

PT-R32



PT-R42



Diffuse reflection



Basic Features	Working Principle	Optical Lens for Fiber				
	Housing Style	Flat block	Smooth Roller with Probe			
	Tip Size	—	$\phi 4.3$		$\phi 7.4$	$\phi 10.6$
	Spot Diameter	$\phi 0.5 \sim 3$	about $\phi 4$ (Detection Distance Within 0~20mm)	$\phi 0.4$	$\phi 0.5$	$\phi 2.0$
	Focal Length	8~30	0~30	7±2mm	15±2mm	35±2mm
Mechanical Data	Suitable for Fiber Head	M3				
	Material	Aluminum				
	Model	PF-5D	PF-3D	PF-2D (HOT)	PF-4D	PF-6D

Thru-beam



Basic Features	Working Principle	Optical Lens for Fiber			
	Housing Style	Smooth Roller with Probe		Flat block	Smooth Roller with Probe
	Tip Size	$\phi 4.3$	$\phi 4$	—	$\phi 4$
	Spot Diameter	—			
	Focal Length	3600mm			
Mechanical Data	Suitable for Fiber Head	$\phi 2.6\text{mm}$			
	Material	Aluminum	Nickel-plated brass	Aluminum	Nickel-plated brass
	Model	PF-4T	PF-2T	PF-5T	PF-1T

Fiber Optic

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Regular 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

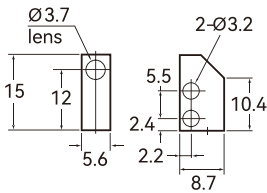
Fiber lens

Fiber Lens

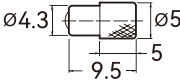
Dimensions

Unit: mm

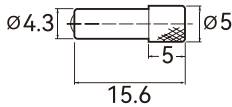
PF-5D



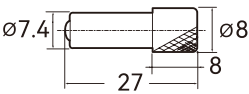
PF-3D



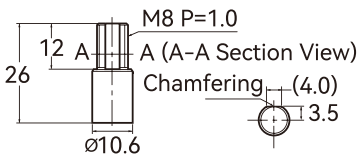
PF-2D



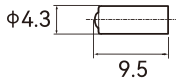
PF-4D



PF-6D



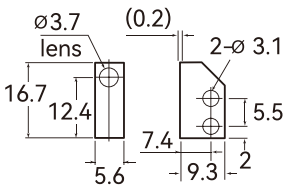
PF-4T



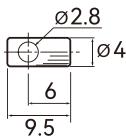
PF-2T



PF-5T



PF-1T



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Fiber lens

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Photoelectric
Laser
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Fiber lens
Fiber lens