

Волоконно-оптические датчики PD-R, PD-E, PD-C, PT-S, PT-R

Технические характеристики

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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: auh@nt-rt.ru || сайт: <https://akusense.nt-rt.ru>

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 + polyethylene	Stainless steel		Stainless steel + polyethylene
	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

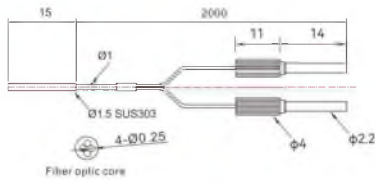
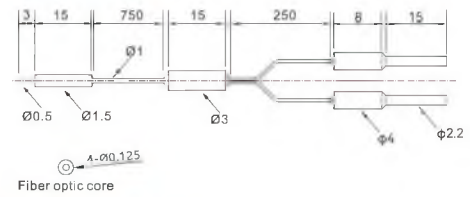
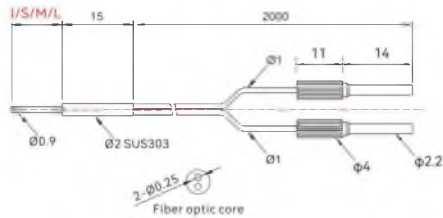
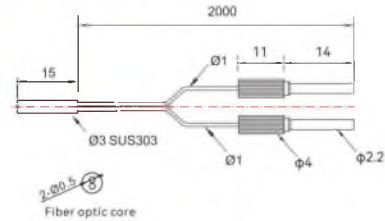
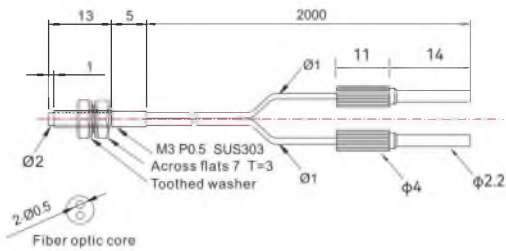
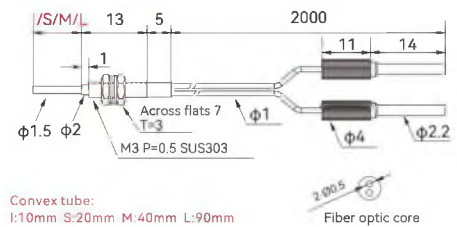
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



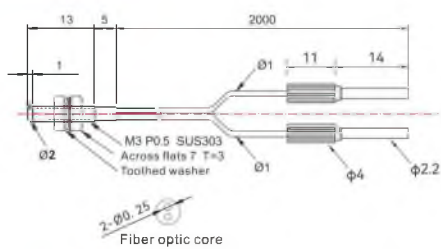
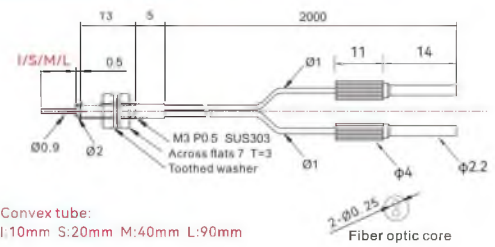
Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Diffuse reflection				
	Housing Style	Long convex tube	—	Long convex tube	Short convex tube	Long convex tube
	Fiber Head Type	M3			M4	
	Sensing Distance	with PG1:60mm with PE1:100mm	with PG1:10mm with PE1:15mm	with 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 + polyethylene	Stainless steel		Stainless steel + polyethylene	
	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

Unit: mm

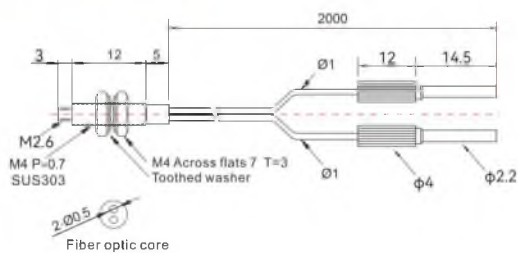
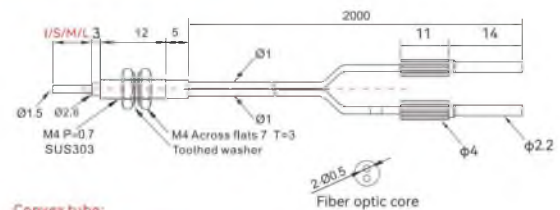
Dimensions

PD-R49Y**PD-R46****PD-E22-Q-I/S/M/L****PD-S32-Q****PD-32****PD-32-I/S/M/L**

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

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

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

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

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

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		1000mm		
	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	–				
Mechanical Data	Bending Radius	25mm		2mm	4mm	15mm
	Material	Stainless steel + polyethylene			–	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

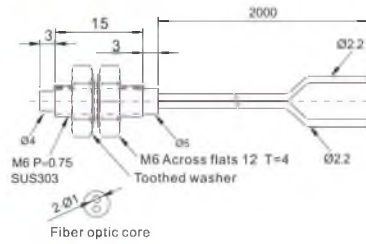
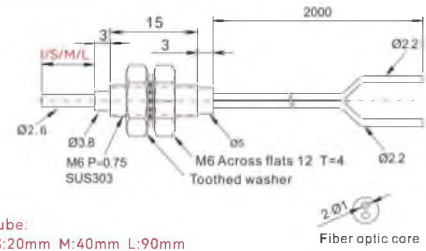
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



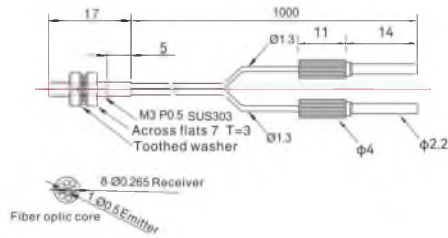
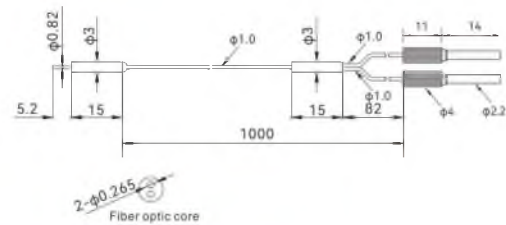
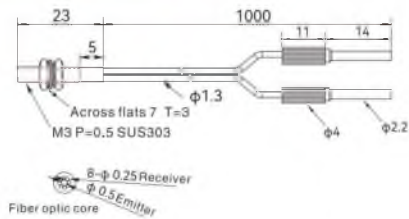
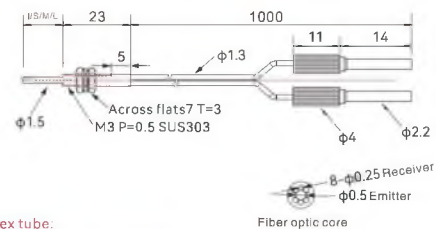
Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Diffuse reflection				
	Housing Style	Long convex tube	—	Long convex tube	Short convex tube	Long convex tube
	Fiber Head Type	M3mm	M4mm		M6mm	
	Sensing Distance	with PG1:100mm with PE1:130mm	with PG1:100mm with PE1:160mm	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 (HOT)	PD-C42-I/S/M/L	PD-C62

Unit: mm

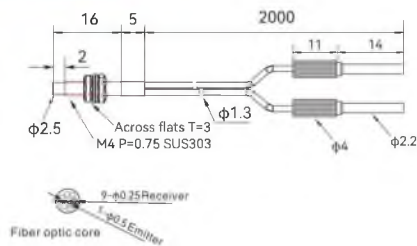
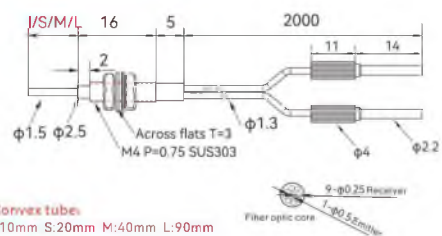
Dimensions

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

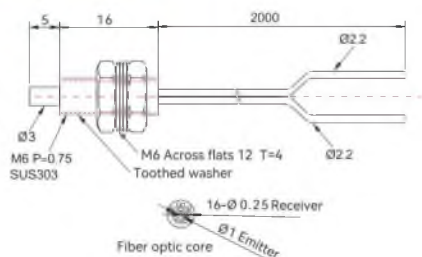
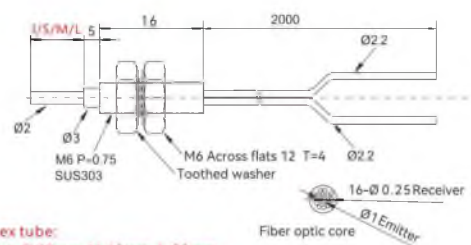
Convex tube:
I:10mm S:20mm M:40mm L:90mm

PD-L35GA**PD-G45Y****PD-C310-35FA****PD-C310-35FA-I/S/M/L**

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

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

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

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

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

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	-	
Mechanical Data	Bending Radius	5mm	
	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)

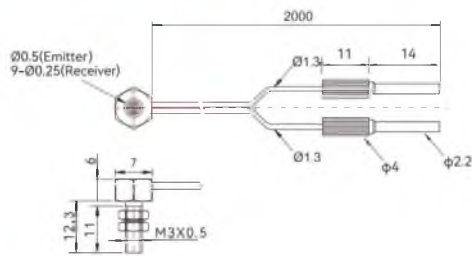
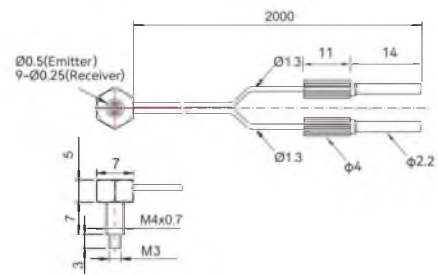
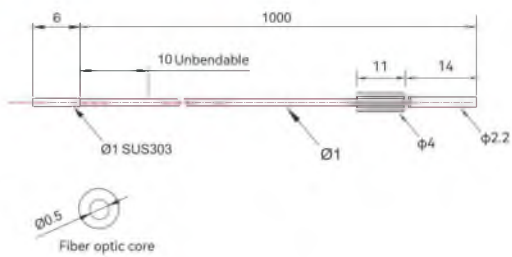
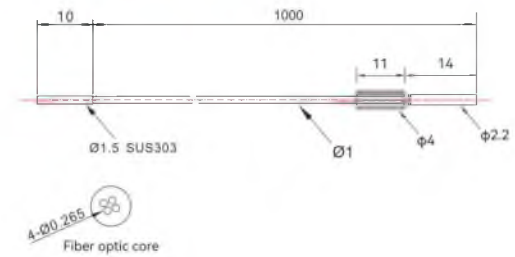
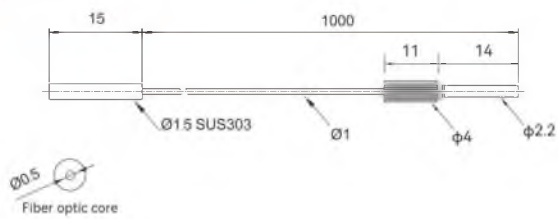
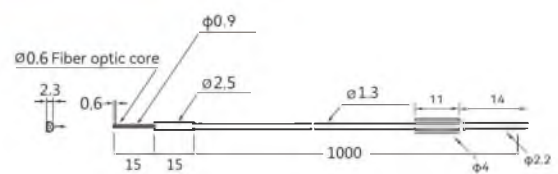
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.

Thru-beam

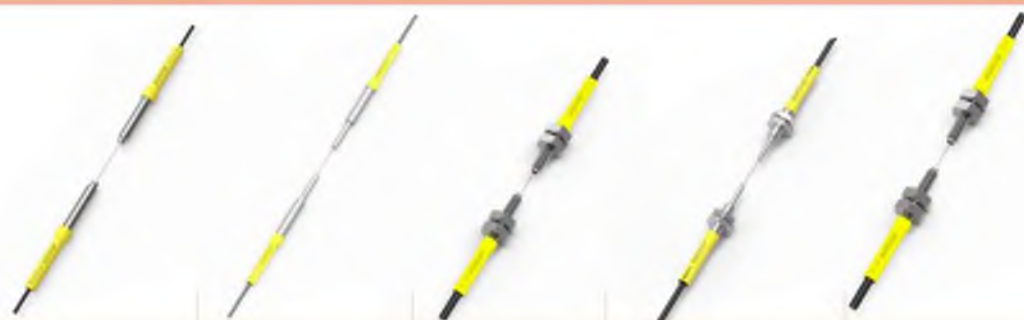


Basic Features	Working Principle	Fiber optic components		
	Optical Working Principle	Thru-beam		
	Housing Style	-		Right-angle type, long convex tube
	Fiber Head Type	Ø1.0mm	Ø1.5mm	Ø2.5mm
	Sensing Distance	with PG1:240mm with PE1:350mm	with PG1:190mm with PE1:310mm	with PG1:230mm with PE1:320mm
	Fiber 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 + polyethylene		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

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

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 + polyethylene		
	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 (荐)

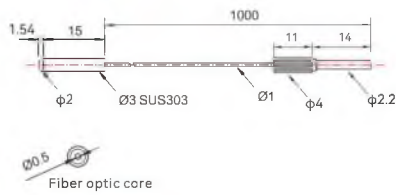
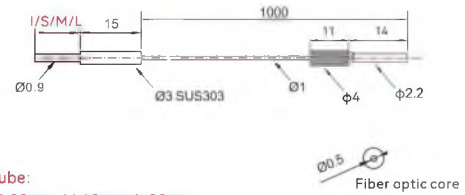
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



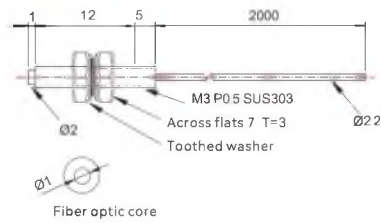
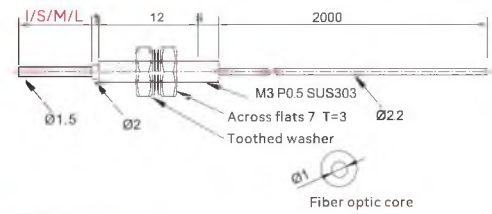
Basic Features	Working Principle	Fiber optic components				
	Optical Working Principle	Thru-beam				
	Housing Style	Long convex tube	Short convex tube	Long convex tube	Right-angle type	Right-angle type, short convex tube
	Fiber Head Type	M4mm	M6mm		M3mm	M4mm
	Sensing Distance	with PG1:400mm with PE1:1400mm	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 + polyethylene				
	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

Unit: mm

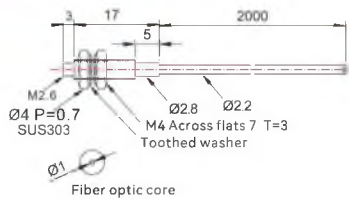
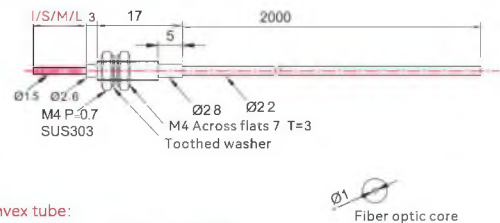
Dimensions

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

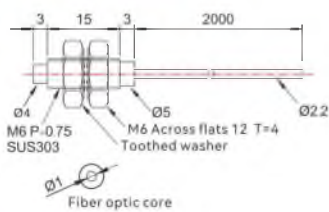
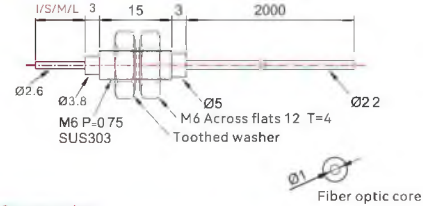
Convex tube:
I:10mm S:20mm M:40mm L:90mm

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

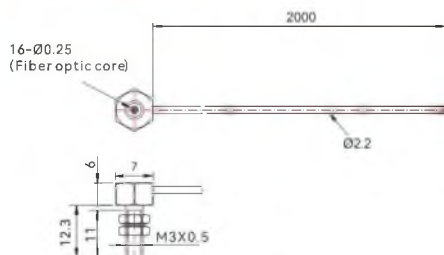
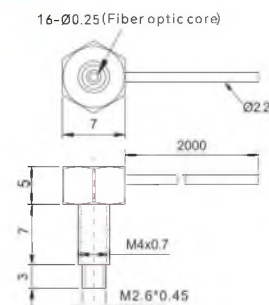
Convex tube:
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PT-42**PT-42-I/S/M/L**

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

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

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

PT-C32TZ**PT-C42TZ**

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)

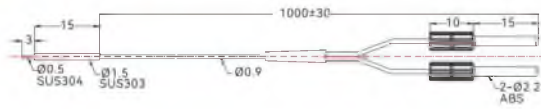
Note: The detection distance is for reference only and is also related to factors such as the power level adjustment of the amplifier and the detection environment.



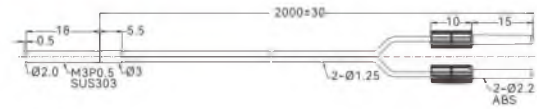
Basic Features	Working Principle	Fiber optic components			
	Optical Working Principle	Diffuse reflection			
	Housing Style	Right-angle type	Right-angle type	Short convex tube	Right-angle type, short convex tube
	Fiber Head Type	Without drum		M6mm	
	Sensing Distance	with PG1:10mm with PE1:15mm	-	with 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 (HOT)	PD-R38L (HOT)	PD-R62 (HOT)	PD-R62TE (HOT)

Unit: mm

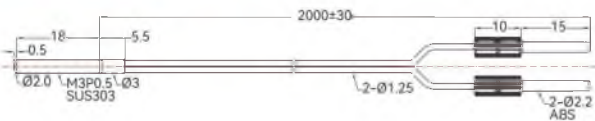
Dimensions

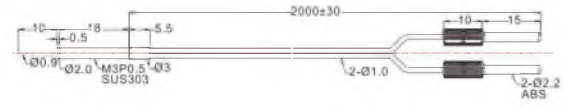
PD-R15

Ø0.125 Fiber core X4

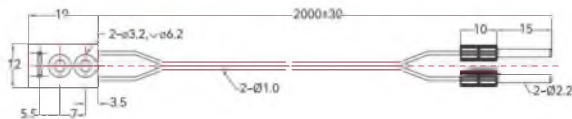
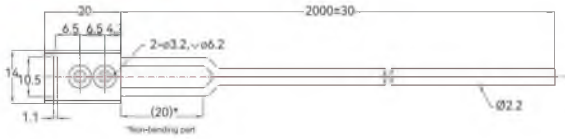
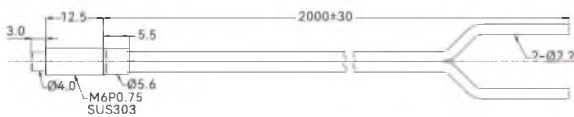
PD-R32

Ø0.5 Fiber core X2

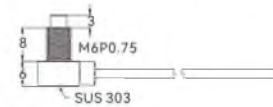
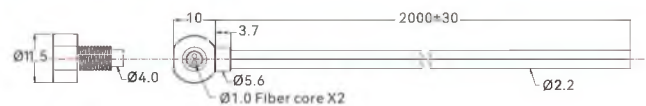
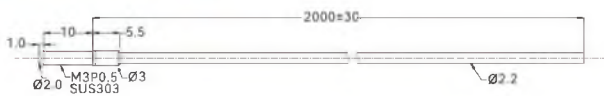
PD-RC32

 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

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	-	
Mechanical Data	Bending Radius	25mm	
	Material	Poly(methyl methacrylate) + Fluorinated polymer	
	Fiber Can Be Cut	Can be cut with fiber cutter	
	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.



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Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: auh@nt-rt.ru || сайт: <https://akusense.nt-rt.ru>