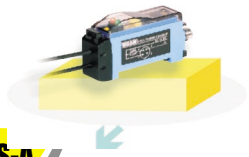
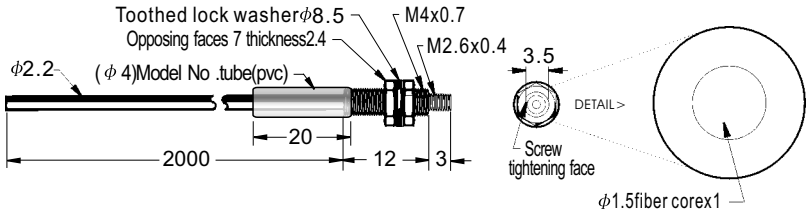
Individual Cables



PT-M4P052S-A

Dimensions (mm)



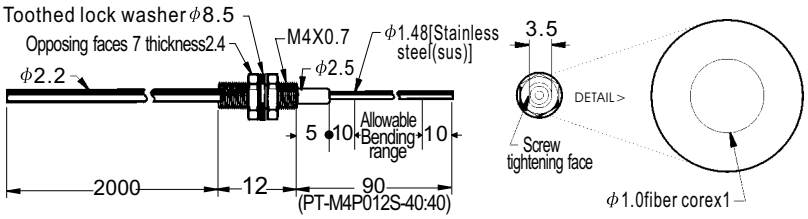
- Shape of fiber head: M4
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.04 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	1100	220	110	100
S T D:	530	110	55	50
FAST:	400	75	40	30
S - D:	180	-	-	-

- Allowable bending radius: R25

PT-M4P012S-90

Dimensions (mm)



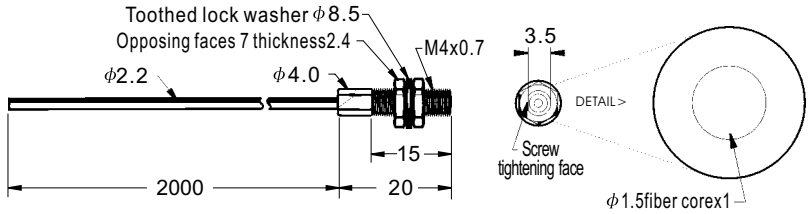
- Shape of fiber head: M4
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	780	150	70	50
S T D:	400	75	35	25
FAST:	280	40	24	18
S - D:	130	-	-	-

- Allowable bending radius: Fiber R25 Sleeve R10

PT-M4T052S

Dimensions (mm)



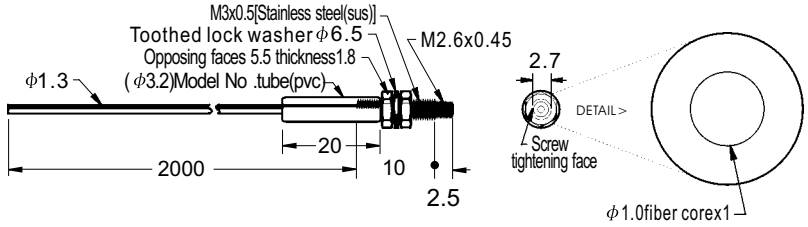
- Shape of fiber head: M4
- Fiber cable length: 2000(Free-cut)Note4
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	1000	200	100	90
S T D:	480	100	50	45
FAST:	360	70	35	28
S - D:	168	-	-	-

- Allowable bending radius: R25

PT-M3P012S-B

Dimensions (mm)

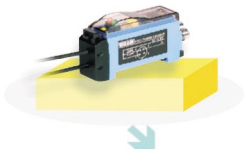


- Shape of fiber head: M4(Standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	780	150	70	50
S T D:	400	75	35	25
FAST:	280	40	24	18
S - D:	130	-	-	-

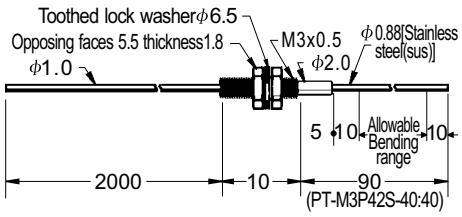
- Allowable bending radius: R25

Notes:
1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.
4) The fiber cutter is not supplied as an accessory with withPT-M4T052S.Please order it separately.



PT-M3P042S-90

Dimensions (mm)



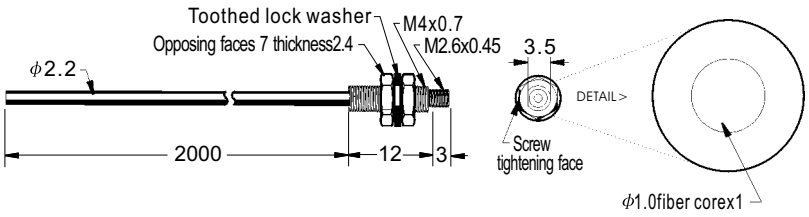
- Shape of fiber head: M3 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.025 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	270	50	24	16
S T D:	140	25	12	8
FAST:	100	16	8	5
S - D:	49	-	-	-

- Allowable bending radius: Fiber R25 Sleeve R10

PT-M4P012S-A

Dimensions (mm)



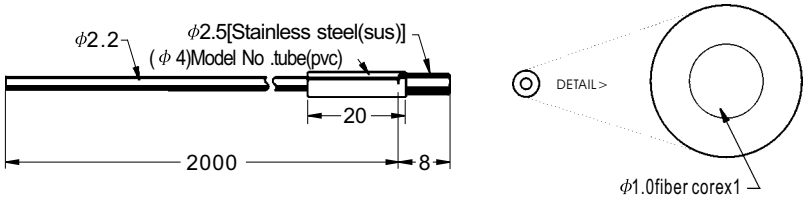
- Shape of fiber head: M6 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	780	150	70	50
S T D:	400	75	35	25
FAST:	280	40	24	18
S - D:	130	-	-	-

- Allowable bending radius: R25

PT-D2.5F012S-2

Dimensions (mm)



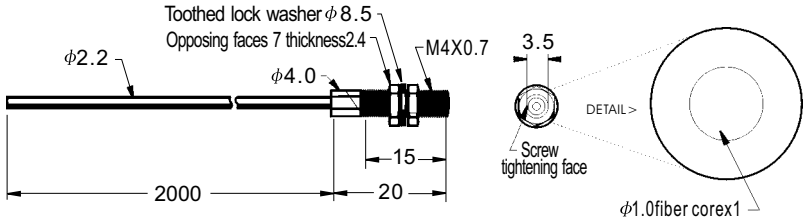
- Shape of fiber head: ϕ2.5 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	780	150	70	50
S T D:	400	75	35	25
FAST:	280	40	24	18
S - D:	130	-	-	-

- Allowable bending radius: R25

PT-M4T012S

Dimensions (mm)



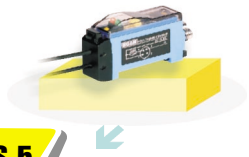
- Shape of fiber head: M4(Standard)
- Fiber cable length: 2000(Free-cut)Note4
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	700	140	66	45
S T D:	360	70	33	22
FAST:	250	40	22	17
S - D:	126	-	-	-

- Allowable bending radius: R25

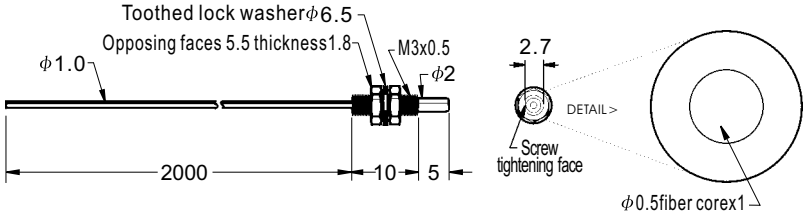
Notes:
1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.
4) The fiber cutter is not supplied as an accessory with withPT-M4T012S.Please order it separately.

Individual Cables



PT-M3P042S-5

Dimensions (mm)



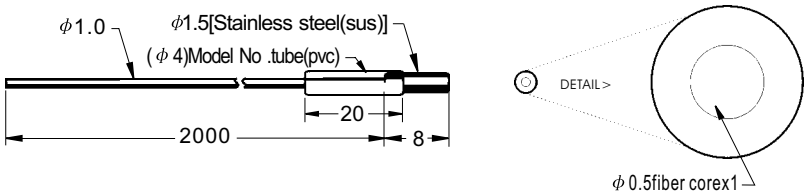
- Shape of fiber head: M3 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.025 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	270	50	24	16
S T D:	140	25	12	8
FAST:	100	16	8	5
S - D:	49	-	-	-

- Allowable bending radius: R25

PT-D1.5F042S-2

Dimensions (mm)



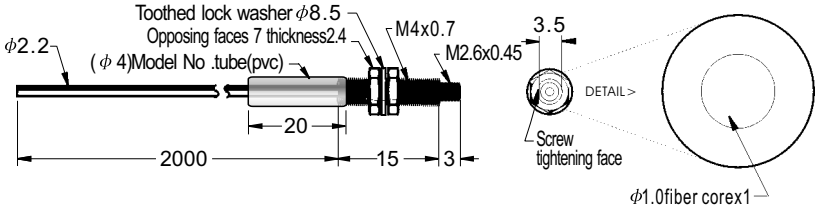
- Shape of fiber head: 1.5 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	270	50	24	16
S T D:	140	25	12	8
FAST:	100	16	8	5
S - D:	49	-	-	-

- Allowable bending radius: R25

PT-M4P012S-D

Dimensions (mm)



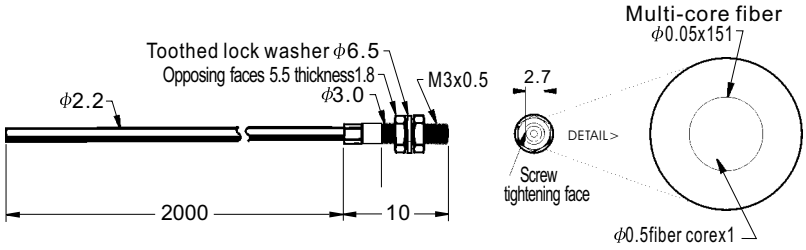
- Shape of fiber head: M4 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	570	90	56	42
S T D:	290	45	28	21
FAST:	200	30	20	15
S - D:	100	-	-	-

- Allowable bending radius: R1

PT-M3T042S

Dimensions (mm)

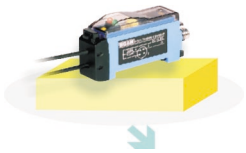


- Shape of fiber head: M3(Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	160	16	10	8
S T D:	80	8	5	4
FAST:	55	5	3	2.5
S - D:	28	-	-	-

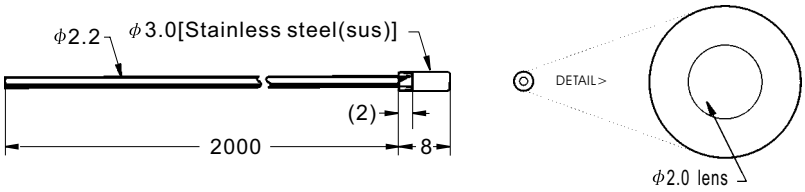
- Allowable bending radius: R1

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.



PT-D3F022S

Dimensions (mm)



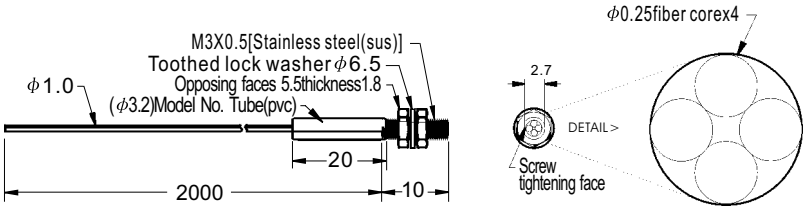
- Shape of fiber head: ϕ3 (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	1200	240	120	110
S T D:	600	120	60	55
FAST:	420	90	40	35
S - D:	210	-	-	-

- Allowable bending radius: R1

PT-M3T202S

Dimensions (mm)



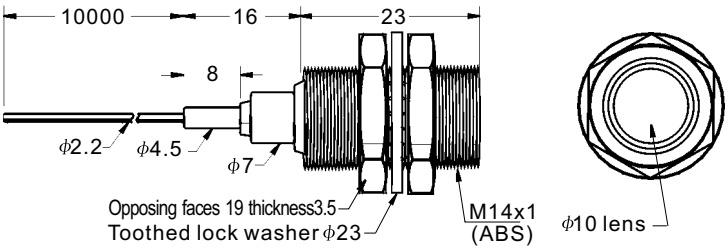
- Shape of fiber head: M3 (Flexible)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	250	32	18	14
S T D:	100	16	9	7
FAST:	75	12	7	5
S - D:	35	-	-	-

- Allowable bending radius: R4

PT-M14T1010S

Dimensions (mm)



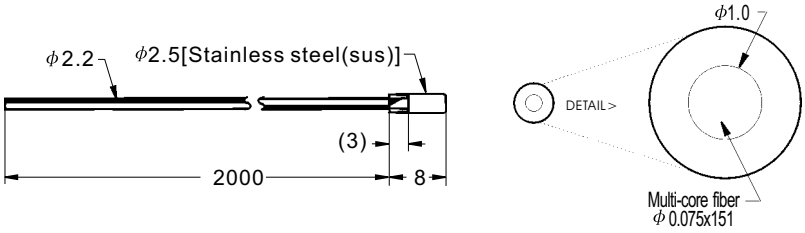
- Shape of fiber head: M4 (standard)
- Fiber cable length: 10000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.04 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	19500	5400	2800	2400
S T D:	1400	2700	1400	1200
FAST:	10000	1900	1000	900
S - D:	3800	-	-	(Note3)-

- Allowable bending radius: R25

PT-D2.5F012S-1

Dimensions (mm)



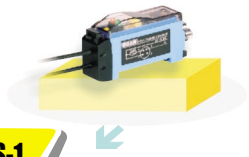
- Shape of fiber head: ϕ2.5(Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.03 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	570	90	56	42
S T D:	290	45	28	21
FAST:	200	30	20	15
S - D:	100	-	-	-

- Allowable bending radius: R1

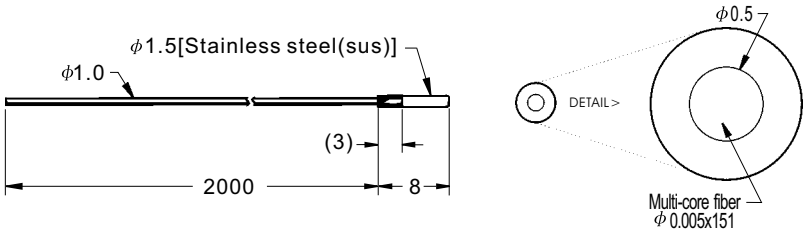
Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.

Individual Cables



PT-D1.5F042S-1

Dimensions (mm)



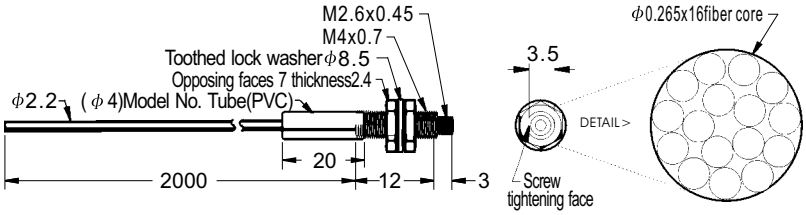
- Shape of fiber head: M3(Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	160	16	10	8
S T D:	80	8	5	4
FAST:	55	5	3	2.5
S - D:	28	-	-	-

- Allowable bending radius: R1

PT-M4P192S-A

Dimensions (mm)



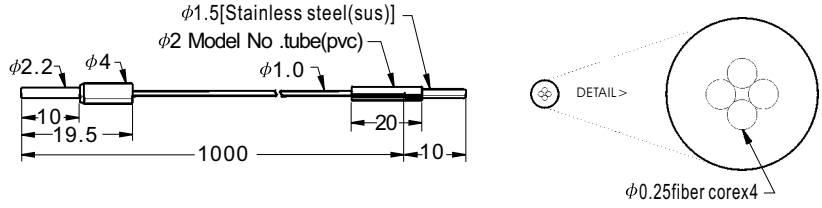
- Shape of fiber head: M4 (Flexible)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.04 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	650	130	70	56
S T D:	320	65	35	28
FAST:	230	45	25	20
S - D:	110	-	-	-

- Allowable bending radius: R4

PT-D2.3P201S-10

Dimensions (mm)



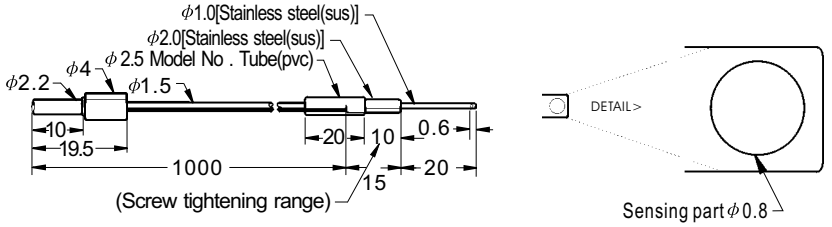
- Shape of fiber head: 1.5 (Flexible)
- Fiber cable length: 1000
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	280	36	20	18
S T D:	120	18	10	9
FAST:	90	14	8	7
S - D:	42	-	-	-

- Allowable bending radius: R4

PT-D2V131S-20

Dimensions (mm)

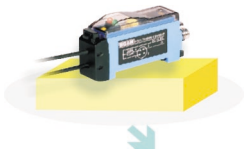


- Shape of fiber head: ϕ1(Standard)
- Fiber cable length: 1000
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	390	50	26	44
S T D:	180	25	13	22
FAST:	125	16	8	15
S - D:	63	-	-	-

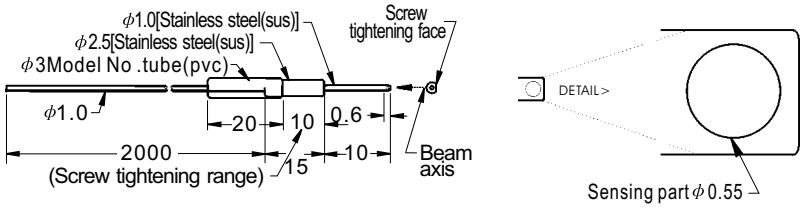
- Allowable bending radius: R25

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.



PT-D2.5V072S-10

Dimensions (mm)



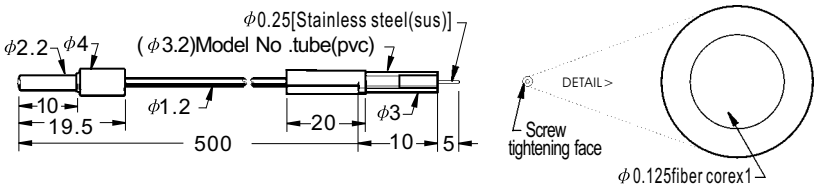
- Shape of fiber head: ϕ1 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	175	28	14	10
S T D:	80	14	7	5
FAST:	60	10	5	3
S - D:	27	-	-	-

- Allowable bending radius: R25

PT-D3P080.5S-5

Dimensions (mm)



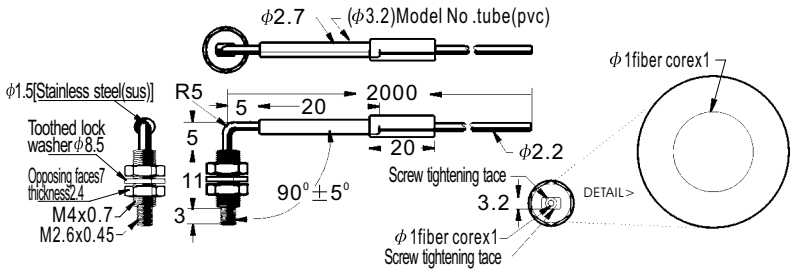
- Shape of fiber head: ϕ0.25 (Sepcial use)
- Fiber cable length: 500
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	18	3	1	4
S T D:	10	2	-	2
FAST:	8	1	-	1.5
S - D:	3	-	-	-

- Allowable bending radius: R5

PT-M4A012S-E

Dimensions (mm)



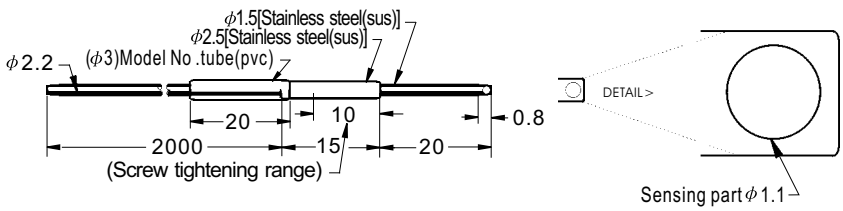
- Shape of fiber head: M4 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.04 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	530	85	44	32
S T D:	230	42	22	16
FAST:	150	28	16	12
S - D:	80	-	-	-

- Allowable bending radius: R25

PT-D2.5V092S-20

Dimensions (mm)



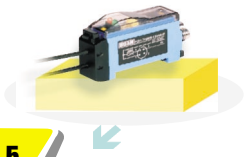
- Shape of fiber head: ϕ1.5(Standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.05 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	400	80	40	30
S T D:	200	40	20	15
FAST:	140	28	14	12
S - D:	70	-	-	-

- Allowable bending radius: R25

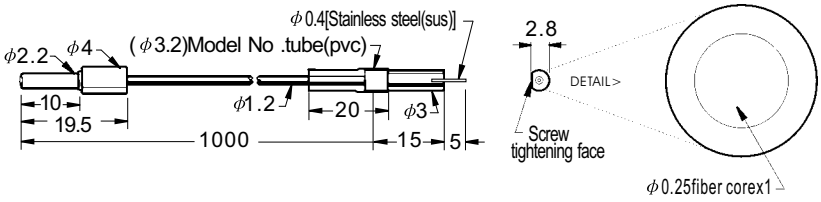
Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.

Individual Cables



PT-D3P061S-5

Dimensions (mm)



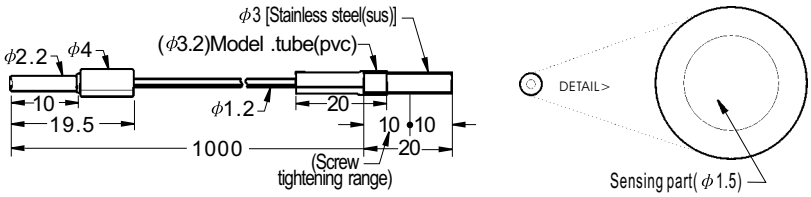
- Shape of fiber head: ϕ0.4 (Special use)
- Fiber cable length: 1000
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	80	14	6	10
S T D:	50	7	3	5
FAST:	36	4	2	3
S - D:	15	-	-	-

- Allowable bending radius: R5

PT-D3F051S

Dimensions (mm)



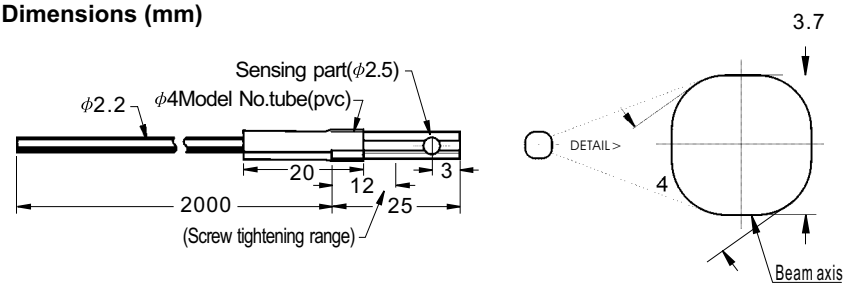
- Shape of fiber head: M4 (Environment resistant)
- Fiber cable length: 1000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	550	100	50	420
S T D:	280	50	25	210
FAST:	200	35	18	160
S - D:	90	-	-	-

- Allowable bending radius: R25

PT-D4V032S

Dimensions (mm)



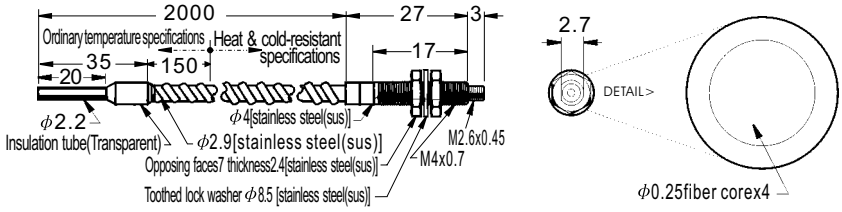
- Shape of fiber head: ϕ4 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.06 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	2000	400	200	150
S T D:	1000	200	100	75
FAST:	800	130	65	40
S - D:	350	-	-	-

- Allowable bending radius: R25

PT-M4P202C-F

Dimensions (mm)

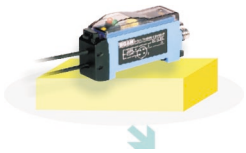


- Shape of fiber head: M4(Environment resistant)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.04 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	550	100	50	420
S T D:	280	50	25	210
FAST:	200	35	18	160
S - D:	90	-	-	-

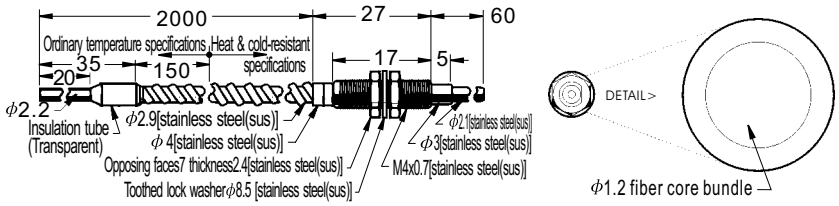
- Allowable bending radius: Fiber R25 sleeve R10)

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.



PT-M4P112C-60

Dimensions (mm)



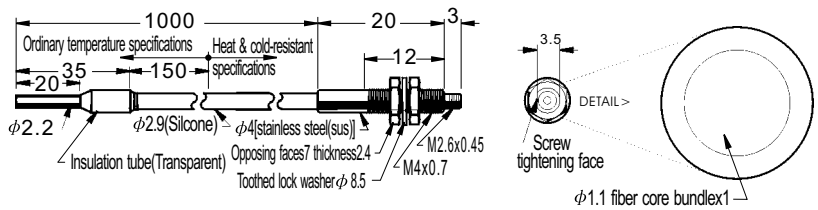
- Shape of fiber head: M4 (Environment resistant)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.04 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	550	100	50	420
S T D:	280	50	25	210
FAST:	200	35	18	160
S - D:	90	-	-	-

- Allowable bending radius: Fiber R25 sleeve R10)

PT-M4P091S-A

Dimensions (mm)



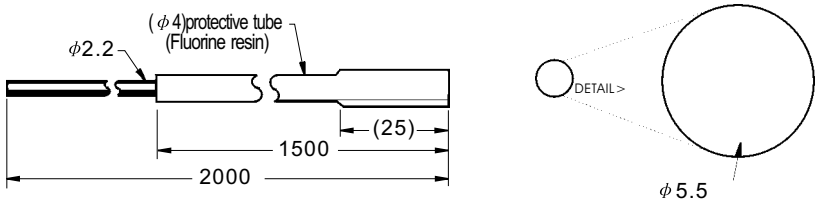
- Shape of fiber head: M4 (Environment resistant)
- Fiber cable length: 1000
- Min.sensing object at the maximum
- sensitivity: ϕ0.04 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	550	100	50	420
S T D:	280	50	25	210
FAST:	200	35	18	160
S - D:	90	-	-	-

- Allowable bending radius: R25

PT-D5.5F2S

Dimensions (mm)



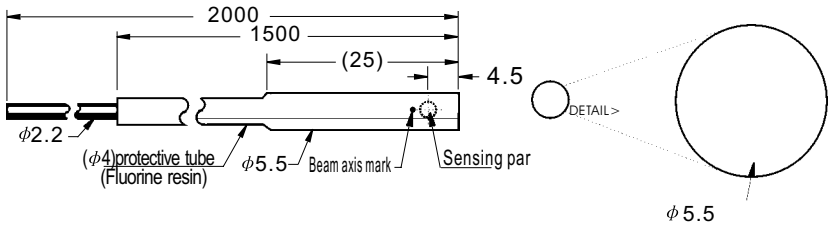
- Shape of fiber head: ϕ5.5(Environment resistant)
- Fiber cable length: 2000(Free-cut)Note3
- Min.sensing object at the maximum
- sensitivity: ϕ0.08 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	3500	160	160	400
S T D:	1500	80	80	200
FAST:	1000	50	50	150
S - D:	530	-	-	-

- Allowable bending radius: R30

PT-D5.5V2S

Dimensions (mm)



- Shape of fiber head: ϕ5.5(Environment resistant)
- Fiber cable length: 2000(Free-cut)Note3
- Min.sensing object at the maximum
- sensitivity: ϕ0.08 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	800	120	80	75
S T D:	400	60	40	38
FAST:	280	35	25	24
S - D:	140	-	-	-

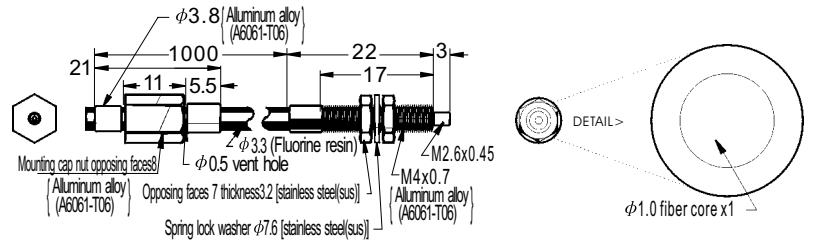
- Allowable bending radius: R30

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.

Individual Cables

PT-M4P011S-3

Dimensions (mm)



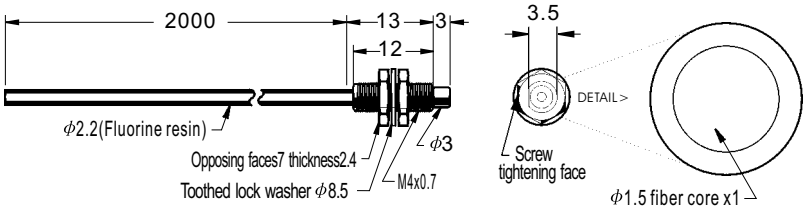
- Shape of fiber head: M4 (Environment resistant)
- Fiber cable length: 1000
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	220	36	18	28
S T D:	110	18	9	14
FAST:	75	12	6	10
S - D:	35	-	-	-

- Allowable bending radius: R30

PT-M4P052S-3

Dimensions (mm)



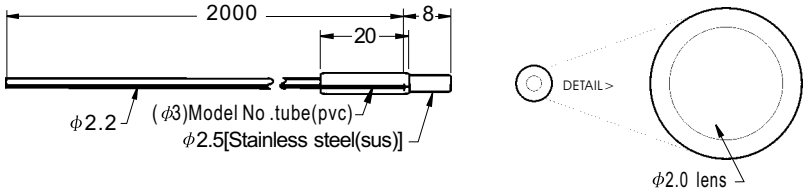
- Shape of fiber head: M4 (Environment resistant)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.06 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	880	72	32	70
S T D:	440	36	16	35
FAST:	300	26	10	25
S - D:	155	-	-	-

- Allowable bending radius: R25

PT-D2.5F022S

Dimensions (mm)



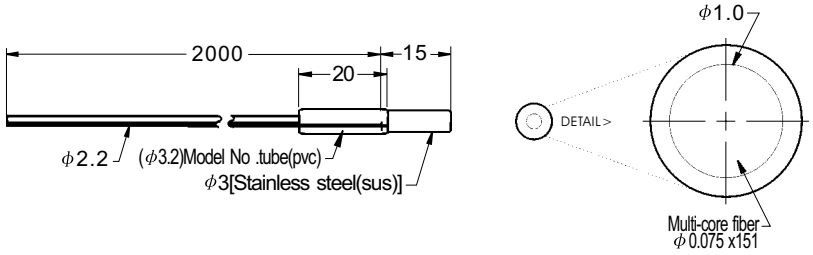
- Shape of fiber head: ϕ2.5 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	1600	400	200	155
S T D:	800	200	100	77
FAST:	580	130	65	55
S - D:	280	-	-	-

- Allowable bending radius: R25

PT-D3F012S

Dimensions (mm)

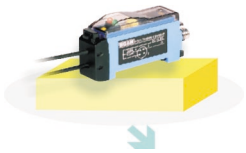


- Shape of fiber head: ϕ3(sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: ϕ0.05 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	570	90	56	42
S T D:	290	45	28	21
FAST:	200	30	20	15
S - D:	100	-	-	-

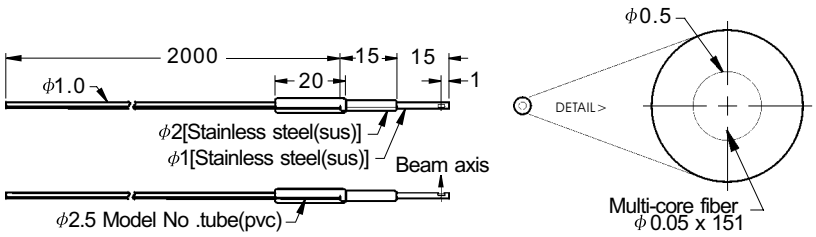
- Allowable bending radius: R1

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.



PT-D2V0.52S

Dimensions (mm)



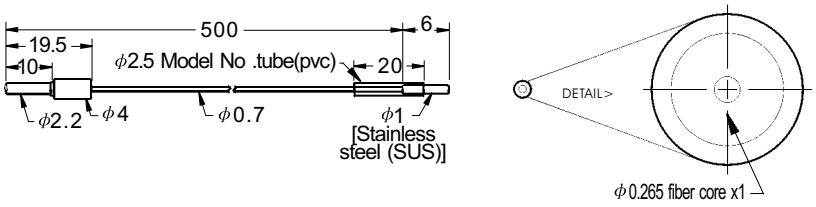
- Shape of fiber head: ϕ1 (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ0.02 opaque object
- Range:

	Red LED
LONG:	90
S T D:	40
FAST:	30
S - D:	15

- Allowable bending radius: R1

PT-D1F330.5S

Dimensions (mm)



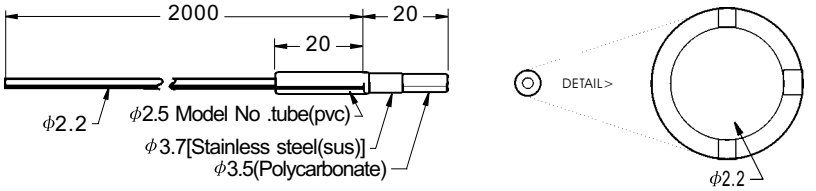
- Shape of fiber head: ϕ1 (Flexible)
- Fiber cable length: 500
- Min.sensing object at the maximum sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	80	14	6	14
S T D:	40	7	3	7
FAST:	30	4	2	4
S - D:	17	-	-	-

- Allowable bending radius: R4

PT-D3.5F532S

Dimensions (mm)



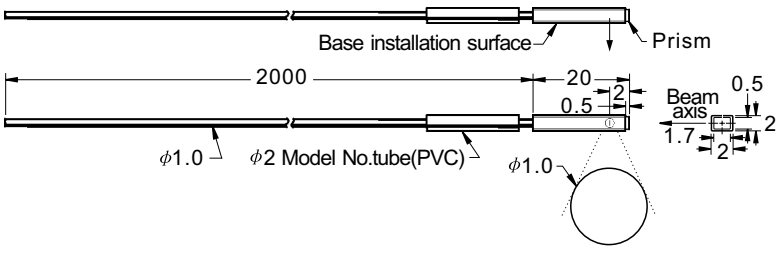
- Shape of fiber head: ϕ3.5 (Sepcial use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ0.06 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	2000	400	200	150
S T D:	1000	200	100	75
FAST:	800	130	65	40
S - D:	350	-	-	-

- Allowable bending radius: R25

PT-D2F662S

Dimensions (mm)



- Shape of fiber head: W2xH1.5xD15 (Sepcial use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ0.02 opaque object
- Range:

	Red LED	Blue LED
LONG:	500	80
S T D:	250	35
FAST:	180	10
S - D:	100	-

- Allowable bending radius: R10

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.