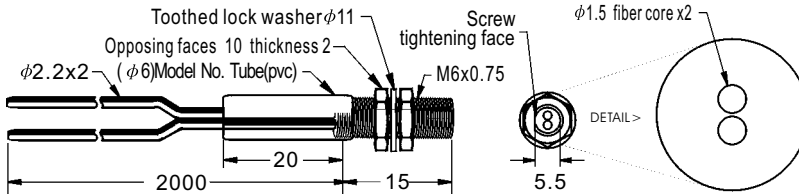


PD-M6T172S

Dimensions (mm)

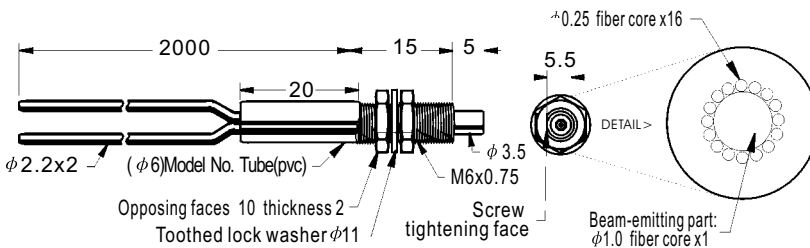


- Shape of fiber head: M6(standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	480	80	42	26
● S T D:	220	40	21	13
● FAST:	160	26	14	9
● S - D:	75	-	-	-
- Allowable bending radius: R25

PD-M6P212S-5

Dimensions (mm)

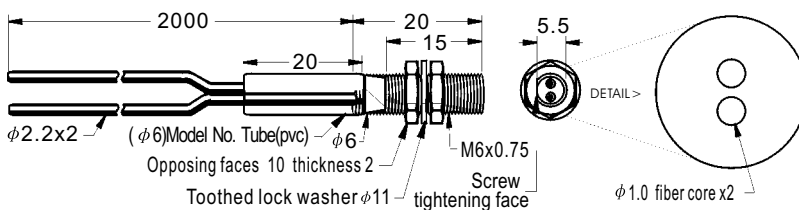


- Shape of fiber head: M6 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	310	46	24	20
● S T D:	140	23	12	10
● FAST:	100	15	8	7
● S - D:	47	-	-	-
- Allowable bending radius: R25

PD-M6T142S-1

Dimensions (mm)

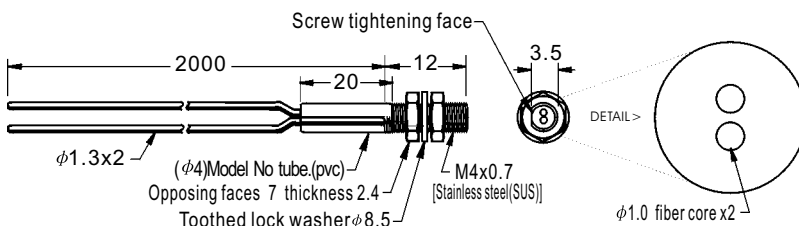


- Shape of fiber head: M6 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	270	46	42	26
● S T D:	110	23	12	10
● FAST:	85	15	8	7
● S - D:	39	-	-	-
- Allowable bending radius: R25

PD-M4T142S-1

Dimensions (mm)



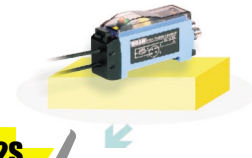
- Shape of fiber head: ϕ 3 (small fiber head)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	270	46	42	26
● S T D:	110	23	12	10
● FAST:	85	15	8	7
● S - D:	39	-	-	-
- Allowable bending radius: R25

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.

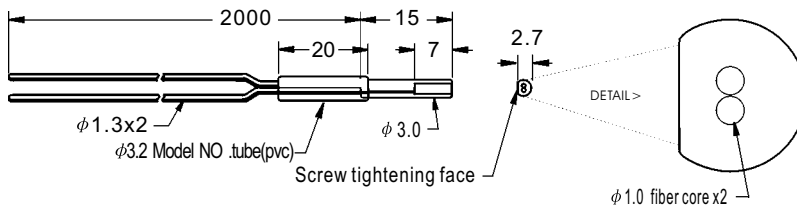
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PD-D4F142S

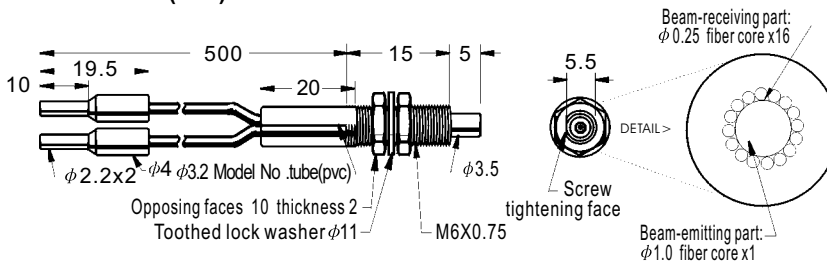
Dimensions (mm)



- Shape of fiber head: φ3(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 | 46 | 24 | 20 |
| ● S T D: | 110 | 23 | 12 | 10 |
| ● FAST: | 85 | 15 | 8 | 7 |
| ● S - D: | 39 | - | - | - |
- Allowable bending radius: R25

PD-M6P210.5S-5

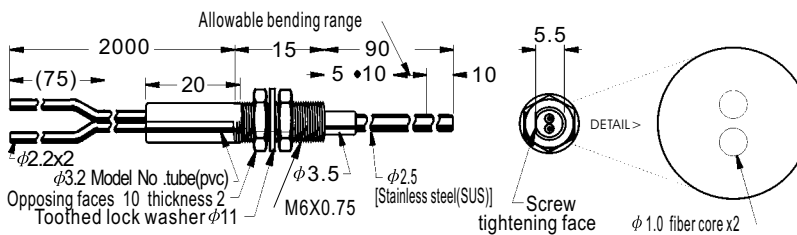
Dimensions (mm)



- Shape of fiber head: M6 (standard)
 - Fiber cable length: 500
 - Min.sensing object at the maximum sensitivity: φ0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 310 | 46 | 24 | 90 |
| ● S T D: | 140 | 23 | 12 | 45 |
| ● FAST: | 100 | 15 | 8 | 30 |
| ● S - D: | 47 | - | - | - |
- Allowable bending radius: R25

PD-M6P142S-90

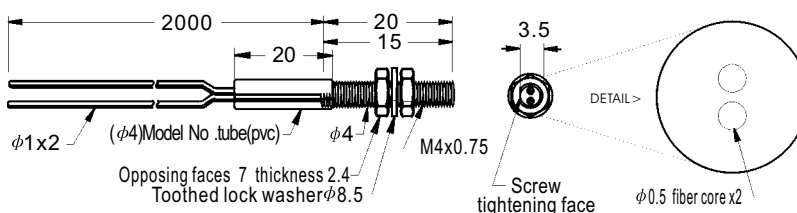
Dimensions (mm)



- Shape of fiber head: M6 (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 | 46 | 24 | 20 |
| ● S T D: | 110 | 23 | 12 | 10 |
| ● FAST: | 85 | 15 | 8 | 7 |
| ● S - D: | 39 | - | - | - |
- Allowable bending radius: Fiber R25
Sleeve R10

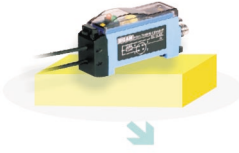
PD-M4T152S

Dimensions (mm)



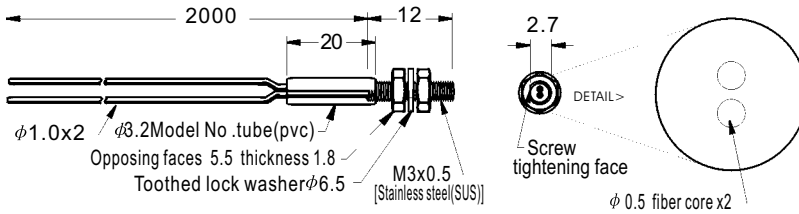
- Shape of fiber head: M4 (standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: φ0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 75 | 16 | 8 | 4 |
| ● S T D: | 38 | 8 | 4 | 2 |
| ● FAST: | 28 | 5 | 2 | 1.5 |
| ● S - D: | 13 | - | - | - |
- 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.



PD-M3T152S-2

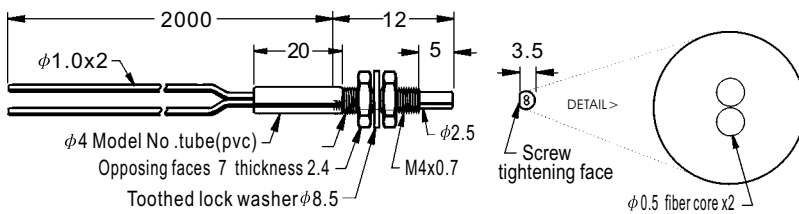
Dimensions (mm)



- Shape of fiber head: M3(standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 90 | 16 | 8 | 6 |
| ● S T D: | 45 | 8 | 4 | 3 |
| ● FAST: | 35 | 5 | 2 | 2 |
| ● S - D: | 16 | - | - | - |
- Allowable bending radius: R25

PD-M4P152S-5

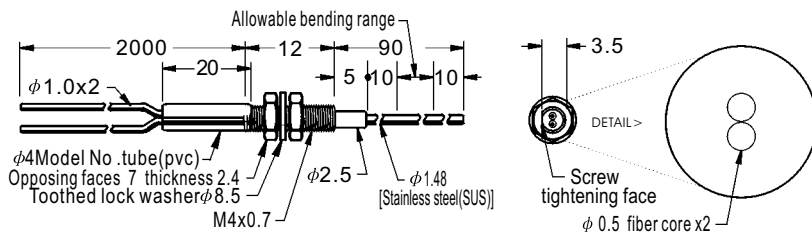
Dimensions (mm)



- Shape of fiber head: M3(standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 90 | 16 | 8 | 6 |
| ● S T D: | 45 | 8 | 4 | 3 |
| ● FAST: | 35 | 5 | 2 | 2 |
| ● S - D: | 16 | - | - | - |
- Allowable bending radius: R25

PD-M4P152S-90

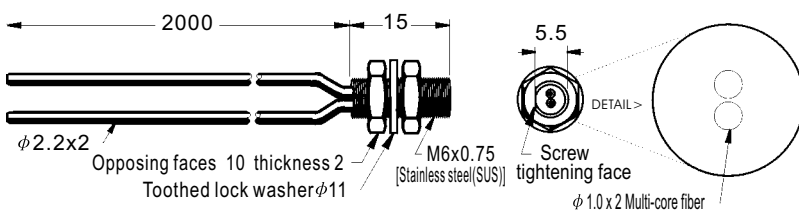
Dimensions (mm)



- Shape of fiber head: M4(standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 90 | 16 | 8 | 6 |
| ● S T D: | 45 | 8 | 4 | 3 |
| ● FAST: | 35 | 5 | 2 | 2 |
| ● S - D: | 16 | - | - | - |
- Allowable bending radius: Fiber R25
Sleeve R10

PD-M6T142S-2

Dimensions (mm)



- Shape of fiber head: M6(sharp bending)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 190 | 23 | 14 | 11 |
| ● S T D: | 90 | 11 | 7 | 5.5 |
| ● FAST: | 60 | 8 | 4 | 3 |
| ● S - D: | 32 | - | - | - |
- Allowable bending radius: R1

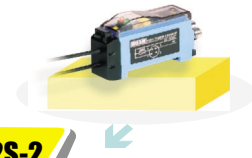
Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.

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.

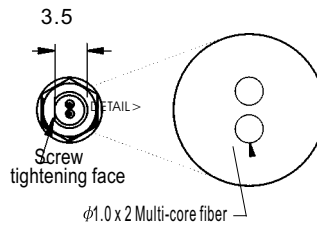
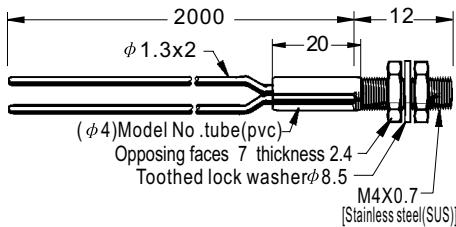
Diffuse Mode Bifurcated Cables

Plastic Fibers



PD-M4T142S-2

Dimensions (mm)



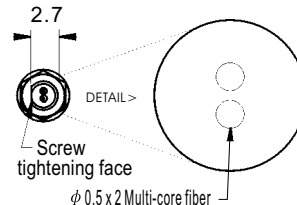
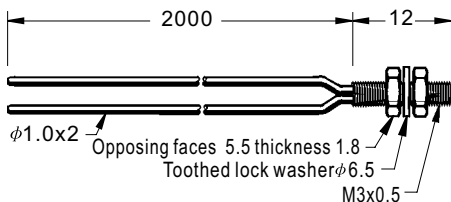
- Shape of fiber head: M4(sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	190	23	14	11
S T D:	90	11	7	5.5
FAST:	60	8	4	3
S - D:	32	-	-	-

- Allowable bending radius: R1

PD-M3T152S-1

Dimensions (mm)



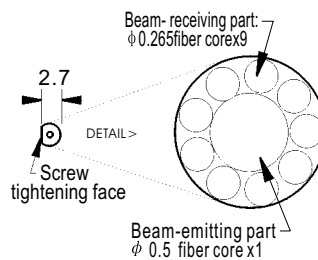
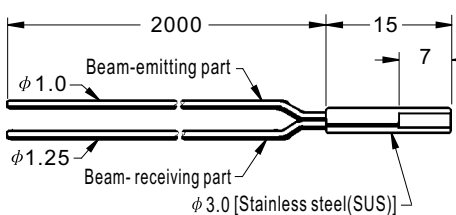
- Shape of fiber head: M3(sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	30	5	3	2
S T D:	15	2.5	1.5	1
FAST:	12	1.5	1	-
S - D:	5	-	-	-

- Allowable bending radius: R1

PD-D3T222S

Dimensions (mm)



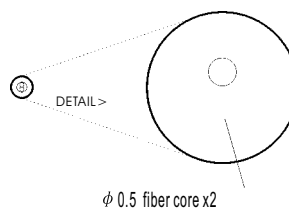
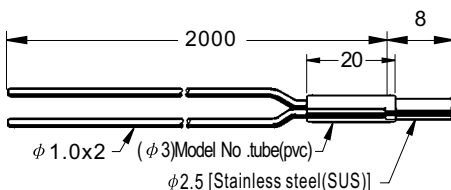
- Shape of fiber head: ϕ 3(sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	65	11	6	5
S T D:	32	5	3	2.5
FAST:	25	3	2	1.5
S - D:	11	-	-	-

- Allowable bending radius: R2

PD-D2.5F152S

Dimensions (mm)



- Shape of fiber head: ϕ 2.5(standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

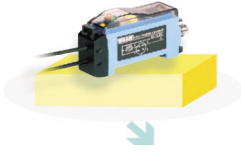
	Red LED	Blue LED	Green LED	Infrared LED
LONG:	90	16	8	6
S T D:	45	8	4	3
FAST:	35	5	2	2
S - D:	16	-	-	-

- Allowable bending radius: Fiber R25
Sleeve R10

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.

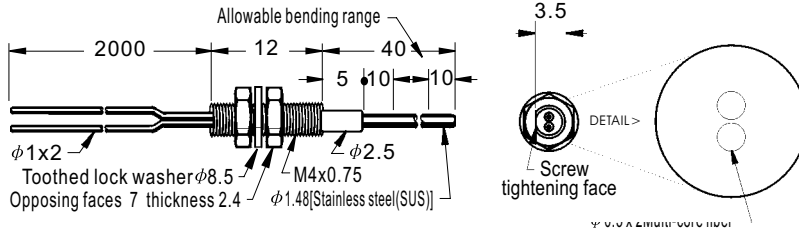
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PD-M4P152S-40

Dimensions (mm)



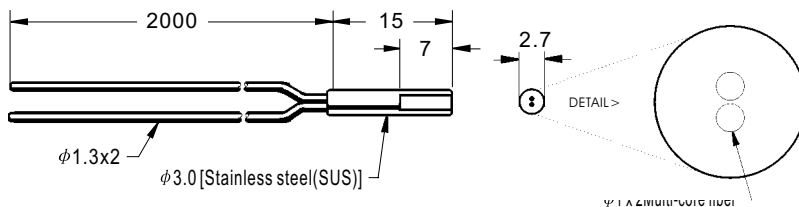
- Shape of fiber head: M4 (sharp bending)
- Fiber cable length: 2000 (Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	30	5	3	2
S T D:	15	2.5	1.5	1
FAST:	12	1.5	1	-
S - D:	5	-	-	-

- Allowable bending radius: Fiber R25
Sleeve R10

PD-D3F142S

Dimensions (mm)



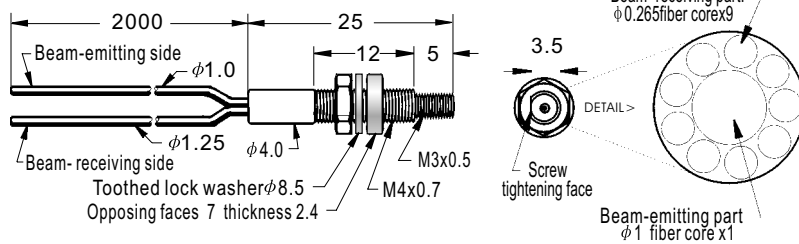
- Shape of fiber head: $\phi 3$ (sharp bending)
- Fiber cable length: 2000 (Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	190	23	14	11
S T D:	90	11	7	5.5
FAST:	60	8	4	3
S - D:	32	-	-	-

- Allowable bending radius: R1

PD-M4P232S-H

Dimensions (mm)



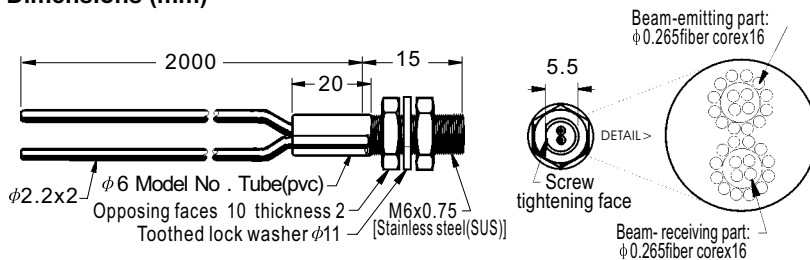
- Shape of fiber head: M4 (sharp bending)
- Fiber cable length: 2000 (Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	65	11	6	5
S T D:	32	5	3	2.5
FAST:	25	3	2	1.5
S - D:	11	-	-	-

- Allowable bending radius: R2

PD-M6T242S

Dimensions (mm)



- Shape of fiber head: M6 (sharp bending)
- Fiber cable length: 2000 (Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
- Range:

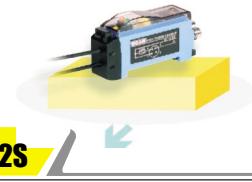
	Red LED	Blue LED	Green LED	Infrared LED
LONG:	220	40	20	18
S T D:	100	20	10	9
FAST:	70	13	7	6
S - D:	35	-	-	-

- Allowable bending radius: R4

Notes: 1) The sensing range is specified for white non-glossy paper (100x100mm) as the object.

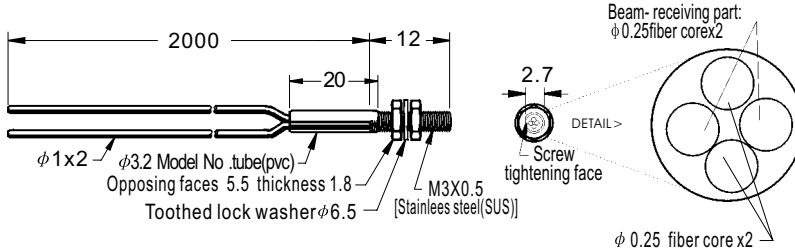
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PD-M3T252S

Dimensions (mm)



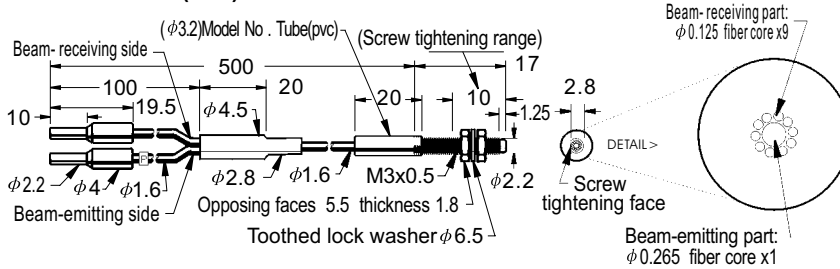
- Shape of fiber head: M3 (Flexible)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	36	5	3	2
S T D:	18	2.5	1.5	1
FAST:	14	1.5	1	-
S - D:	6	-	-	-

- Allowable bending radius: R4

PD-M3P 270.5S-125

Dimensions (mm)



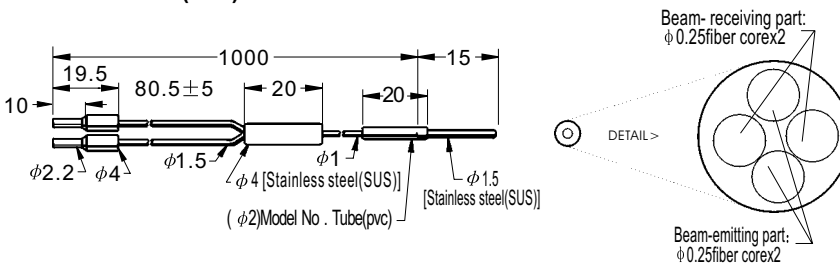
- Shape of fiber head: M3 (special use)
- Fiber cable length: 500(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	38	6	3	10
S T D:	18	3	1.5	5
FAST:	14	2	1	3
S - D:	6	-	-	-

- Allowable bending radius: R25

PD-D2.3P251S-15

Dimensions (mm)



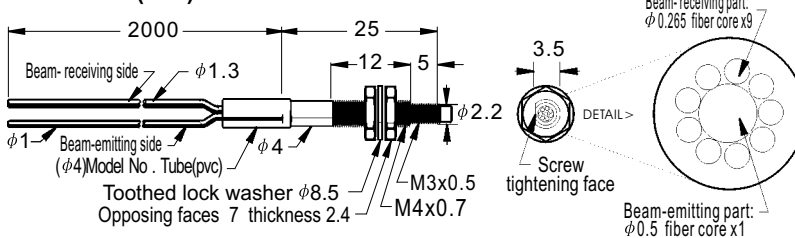
- Shape of fiber head: ϕ 1.5 (Flexible)
- Fiber cable length: 1000
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	50	8	4	7
S T D:	25	4	2	3.5
FAST:	19	2.5	1.5	2
S - D:	9	-	-	-

- Allowable bending radius: R4

PD-M4P282S-2.2

Dimensions (mm)



- Shape of fiber head: M4(Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

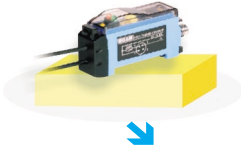
	Red LED	Blue LED	Green LED	Infrared LED
LONG:	110	22	12	7
S T D:	55	11	6	3.5
FAST:	42	8	4	2
S - D:	19	-	-	-

- Allowable bending radius: R25

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.

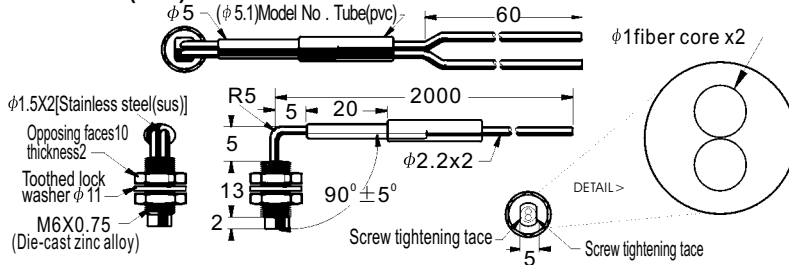
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PD-M6A142S-2

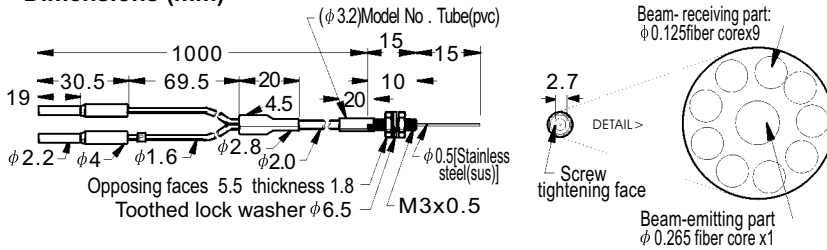
Dimensions (mm)



- Shape of fiber head: M6 (standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 185 | 32 | 16 | 10 |
| ● S T D: | 85 | 16 | 8 | 5 |
| ● FAST: | 60 | 10 | 5 | 3 |
| ● S - D: | 30 | - | - | - |
- Allowable bending radius: R25

PD-M3P271S-15

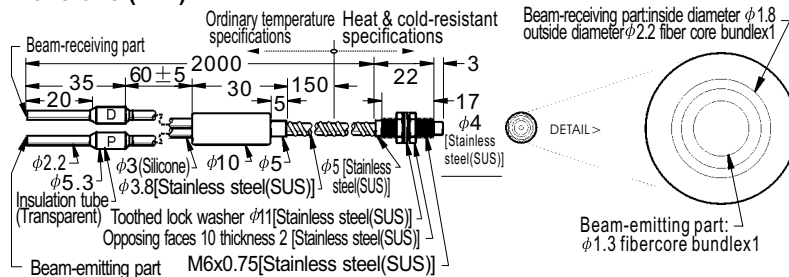
Dimensions (mm)



- Shape of fiber head: M3 (Special use)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 38 | 6 | 3 | 4 |
| ● S T D: | 18 | 3 | 1.5 | 2 |
| ● FAST: | 14 | 2 | 1 | 1.5 |
| ● S - D: | 6 | - | - | - |
- Allowable bending radius: R25

PD-M6P312S-3

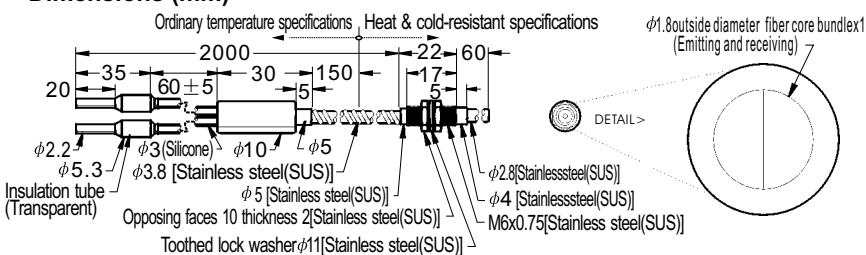
Dimensions (mm)



- Shape of fiber head: M6 (Environment resistant)
 - Fiber cable length: 2000
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 270 | 36 | 20 | 140 |
| ● S T D: | 140 | 18 | 10 | 70 |
| ● FAST: | 100 | 12 | 7 | 45 |
| ● S - D: | 47 | - | - | - |
- Allowable bending radius: R25

PD-M6P182S-60

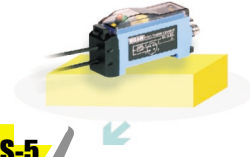
Dimensions (mm)



- Shape of fiber head: M6 (Environment resistant)
 - Fiber cable length: 2000
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 270 | 36 | 20 | 140 |
| ● S T D: | 140 | 18 | 10 | 70 |
| ● FAST: | 100 | 12 | 7 | 45 |
| ● S - D: | 47 | - | - | - |
- Allowable bending radius: Fiber R25
Sleeve R10

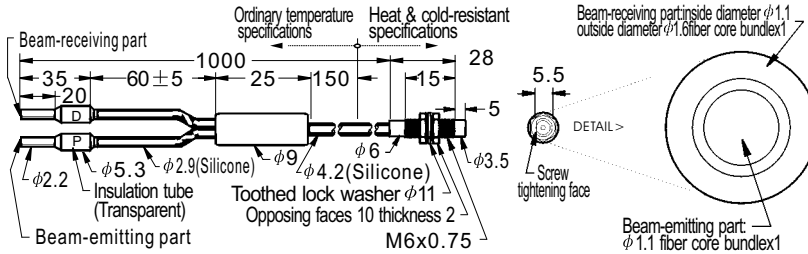
- Notes:** 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.

Bifurcated Cables



PD-M6P301S-5

Dimensions (mm)



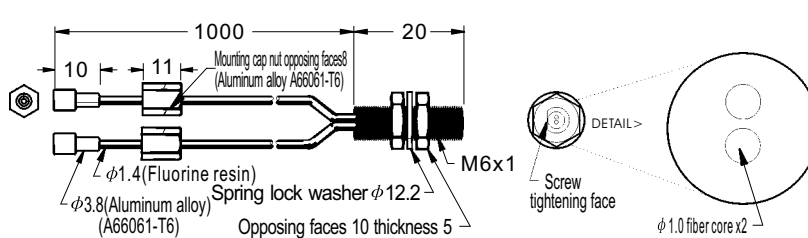
- Shape of fiber head: M6(Environment resistant)
- Fiber cable length: 1000
- Min.sensing object at the maximum sensitivity: φ0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	270	36	20	140
● S T D:	140	18	10	70
● FAST:	100	12	7	45
● S - D:	47	-	-	-

Allowable bending radius: R25

PD-M6T141S

Dimensions (mm)



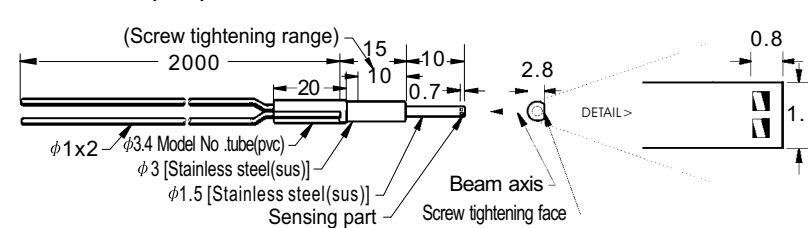
- Shape of fiber head: M6(Environment resistant)
- Fiber cable length: 1000
- Min.sensing object at the maximum sensitivity: φ0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	165	26	14	21
● S T D:	75	13	7	10
● FAST:	52	9	4	6
● S - D:	26	-	-	-

Allowable bending radius: R200

PD-D3V132S-10

Dimensions (mm)



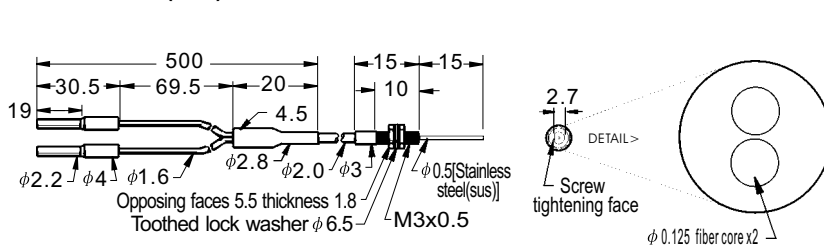
- Shape of fiber head: φ1.5 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: φ0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	55	6	3	-
● S T D:	25	3	-	-
● FAST:	17	-	-	-
● S - D:	9	-	-	-

Allowable bending radius: R25

PD-M3P160.5S-15

Dimensions (mm)



- Shape of fiber head: M3 (special use)
- Fiber cable length: 500
- Min.sensing object at the maximum sensitivity: φ0.02 gold wire
- Range:

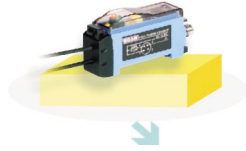
	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	5	-	-	-
● S T D:	3	-	-	-
● FAST:	2	-	-	-

Allowable bending radius: R25

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.

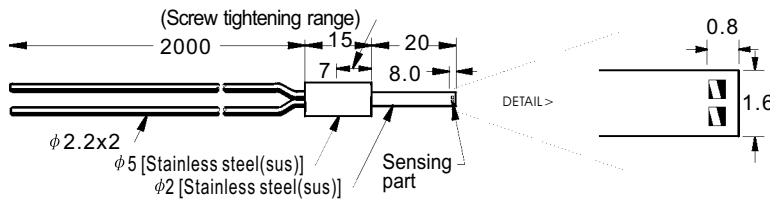
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PD-D5V132S-20

Dimensions (mm)

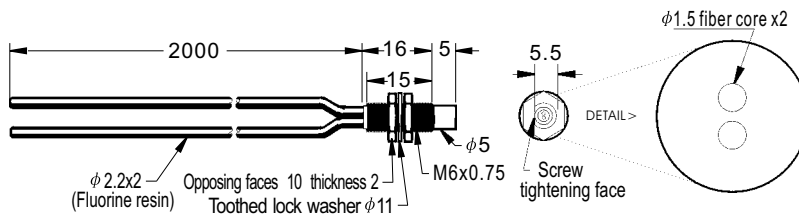


- Shape of fiber head: $\phi 2$ (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	100	14	7	4
● S T D:	45	7	3.5	-
● FAST:	32	4	-	-
● S - D:	16	-	-	-
- Allowable bending radius: R25

PD-M6P172S-5

Dimensions (mm)

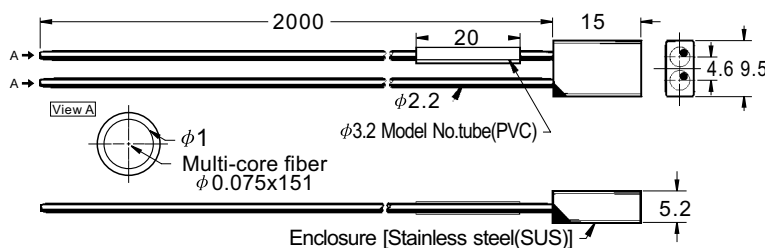


- Shape of fiber head: M6 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.06$ gold wire
- Range:

	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

PD-DR682S

Dimensions (mm)

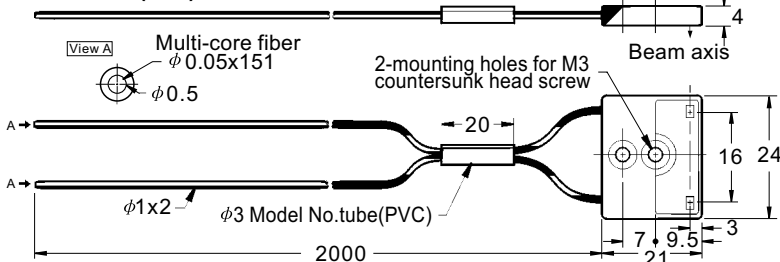


- Shape of fiber head: W5.2xH9.5xD15 (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.03$ copper wire
- Range:

	Red LED
● LONG:	20 to 180
● S T D:	20 to 230
● FAST:	20 to 170
● S - D:	25 to 100
- Allowable bending radius: R1

PD-DI692S-1

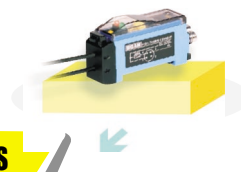
Dimensions (mm)



- Shape of fiber head: W24xH21xD4 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 1.9$ metal pipe(gray)
- Range:

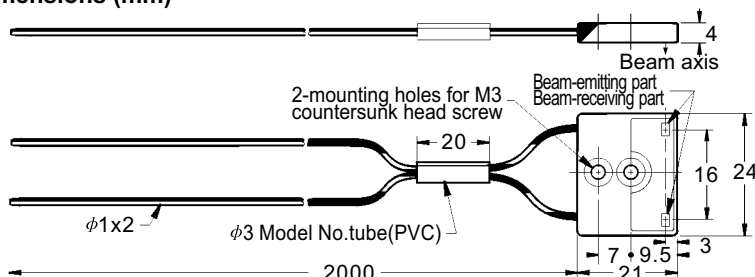
	Red LED
● LONG:	6.5 to 14 (Convergent point 8)
● S T D:	7 to 12 (Convergent point 8)
● FAST:	7.5 to 12 (Convergent point 8)
- Allowable bending radius: R1

- 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.



PD-DI692S

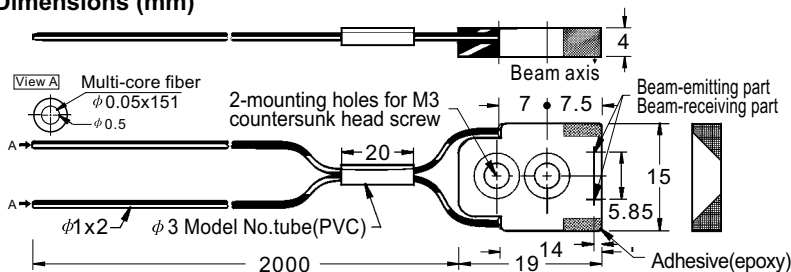
Dimensions (mm)



- Shape of fiber head: W24xH21xD4 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.06$ gold wire
- Range:
 - **Red LED**
 - LONG: 2.5 to 18 (Convergent point 8)
 - S T D: 3 to 16 (Convergent point 8)
 - FAST: 3.5 to 15 (Convergent point 8)
- Allowable bending radius: R10

PD-DG702S

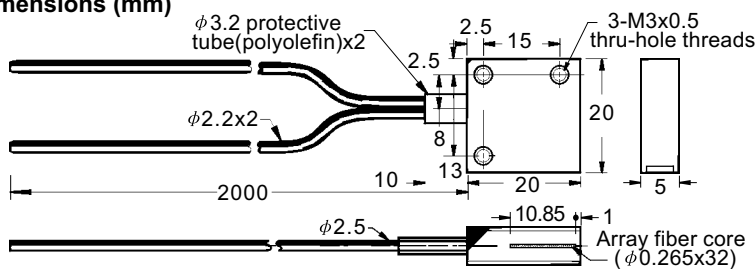
Dimensions (mm)



- Shape of fiber head: W15xH19xD3 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.08$ gold wire
- Range:
 - **Red LED**
 - LONG: 0.2 to 3.5 (Convergent point 8)
 - S T D: 0.9 to 2.7 (Convergent point 8)
 - FAST: 1 to 2.5 (Convergent point 8)
- Allowable bending radius: R1

PD-DB722S

Dimensions (mm)

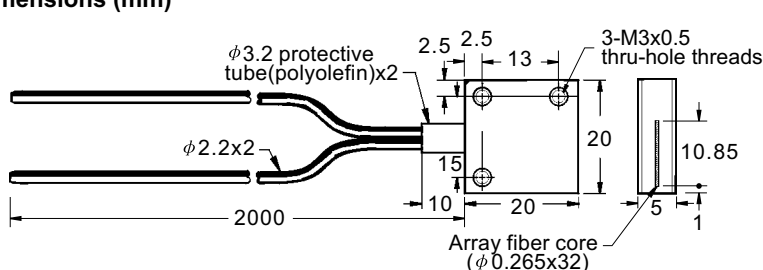


- Shape of fiber head: W5xH20xD20 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	220	40	18	12
● S T D:	110	20	9	6
● FAST:	78	13	5	4
● S - D:	39	-	-	-
- Allowable bending radius: R25

PD-DC722S

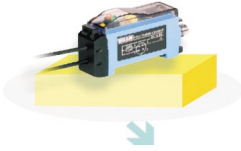
Dimensions (mm)



- Shape of fiber head: W5xH20xD20 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire
- Range:

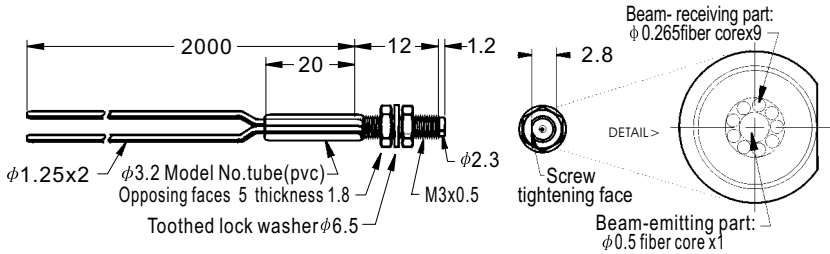
	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	220	40	18	12
● S T D:	110	20	9	6
● FAST:	78	13	5	4
● S - D:	39	-	-	-
- Allowable bending radius: R25

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.



FD-M2.3P282S

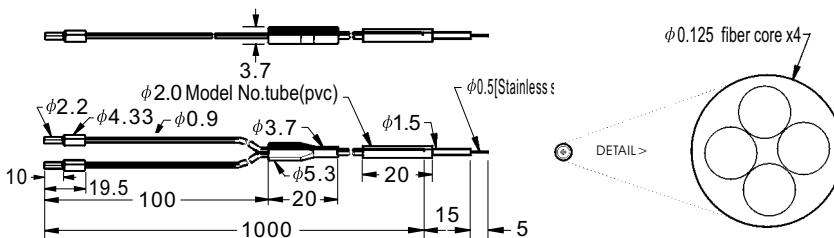
Dimensions (mm)



- Shape of fiber head: M3(special)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 110 | 22 | 12 | 7 |
| ● S T D: | 55 | 11 | 6 | 3.5 |
| ● FAST: | 42 | 8 | 4 | 2 |
| ● S - D: | 19 | - | - | - |
- Allowable bending radius: R25

PD-D1.5F521S-J

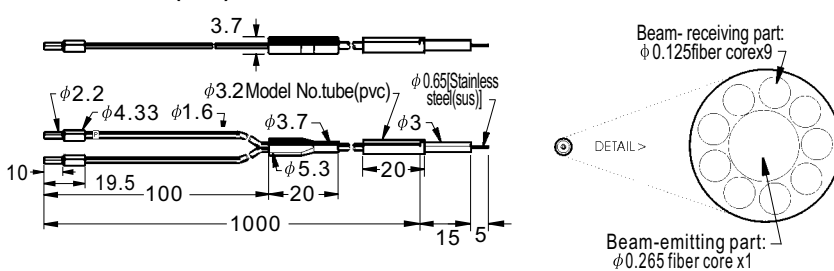
Dimensions (mm)



- Shape of fiber head: ϕ 0.5 (Special use)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 11 | 2 | 1 | 1 |
| ● S T D: | 6 | - | - | - |
| ● FAST: | 4 | 1 | - | - |
| ● S - D: | 1 | - | - | - |
- Allowable bending radius: R10

PD-D3F71S-J

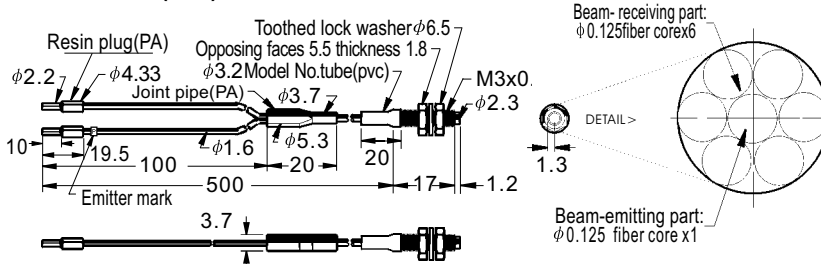
Dimensions (mm)



- Shape of fiber head: ϕ 3 (Special use)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 45 | 6 | 3 | 6 |
| ● S T D: | 23 | 3 | 1.5 | 3 |
| ● FAST: | 17 | 2 | 1 | 2 |
| ● S - D: | 6 | - | - | - |
- Allowable bending radius: R25

PD-M3P360.5S-1.2

Dimensions (mm)



- Shape of fiber head: M3(Special use)
 - Fiber cable length: 500
 - Min.sensing object at the maximum sensitivity: ϕ 0.04 gold wire
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|----------|---------|----------|-----------|--------------|
| ● LONG: | 15 | 2 | 1 | 3 |
| ● S T D: | 8 | 1 | - | 1.5 |
| ● FAST: | 5 | - | - | 1 |
| ● S - D: | 3 | - | - | - |
- Allowable bending radius: R10

Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.

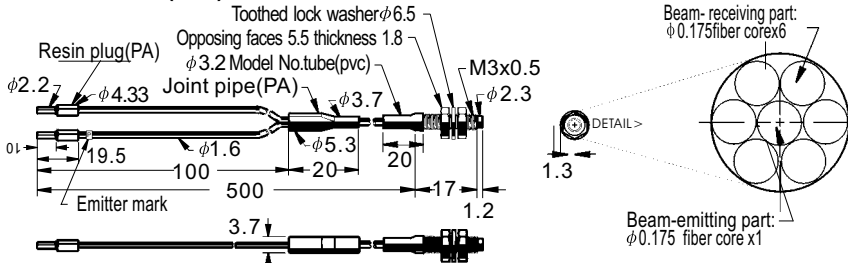
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PD-M3P350.5S-12

Dimensions (mm)

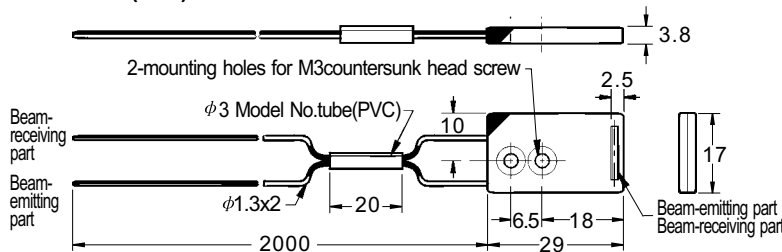


- Shape of fiber head: M3 (Special use)
- Fiber cable length: 500
- Min.sensing object at the maximum sensitivity: ϕ 0.04 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	25	5	2	6
S T D:	12	2	1	3
FAST:	9	1	-	2
S - D:	5	-	-	-
- Allowable bending radius: R25

PD-DD732S

Dimensions (mm)

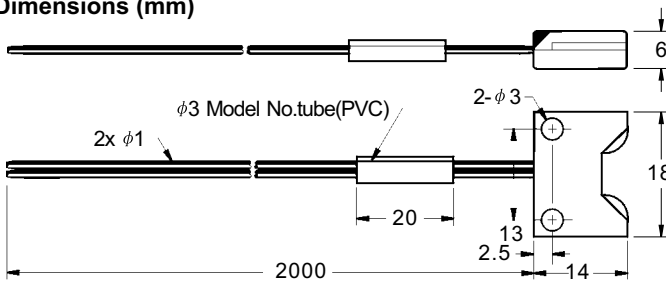


- Shape of fiber head: W17xH29xD3.8 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: LCD glass
- Range:

	Red LED
S T D:	0 to 20
- Allowable bending radius: R4

PD-DK572S

Dimensions (mm)

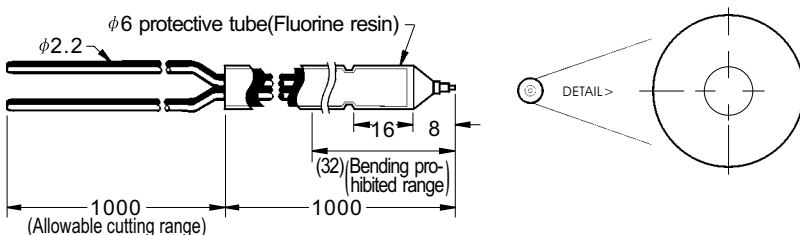


- Shape of fiber head: W6xH18xD14 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	2.5 to 18 (Convergent point)	4.5 to 9.5	5to9	4.5to9.5
S T D:	4 to 12 (Convergent point)	5 to 9	5.5to8	-
FAST:	4.5 to 11 (Convergent point)	5.5 to 8	-	-
S - D:	4.8 to 9.5 (Convergent point)	-	-	-
- Allowable bending radius: R10

PD-D6Z451S

Dimensions (mm)

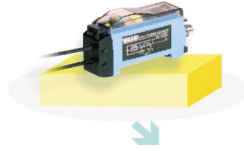


- Shape of fiber head: ϕ 6(Contact type)
- Fiber cable length: 2000(Free-cut) Note4
- Min.sensing object at the maximum sensitivity: (Liquid)
- Allowable bending radius: Protective Tube R40 Fiber R15)

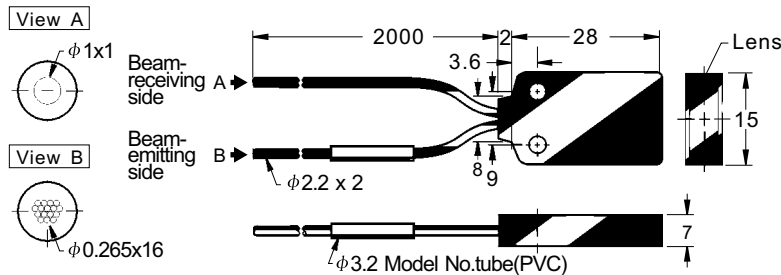
Notes: 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.

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.



PD-DWB712S



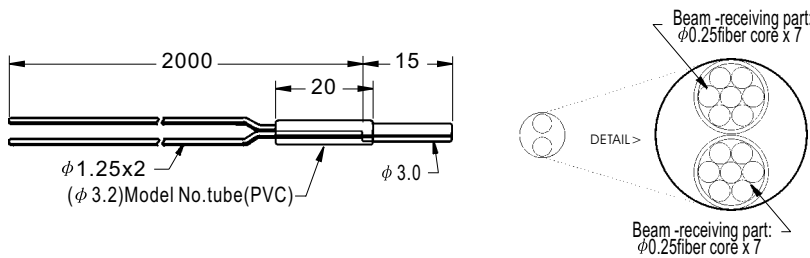
Shape of fiber head: $\phi 3$ (standard)
Fiber cable length: 2000(Free-cut)
Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire

Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	200	25	-	-
● S T D:	150	15	-	-
● FAST:	100	-	-	-
● S - D:	50	-	-	-

Allowable bending radius: R25

PD-D3F342S



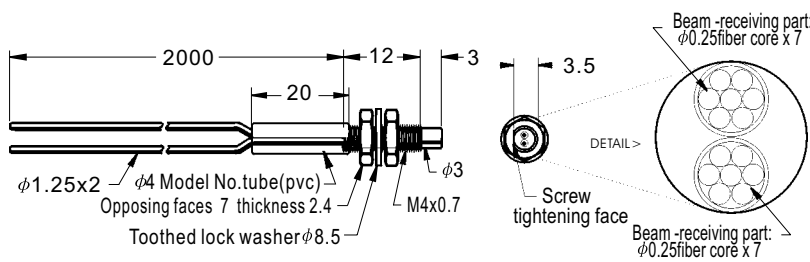
Shape of fiber head: $\phi 3$ (Flexible)
Fiber cable length: 2000(Free-cut)
Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire

Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	90	20	10	8
● S T D:	45	10	5	4
● FAST:	30	6	3	2.5
● S - D:	16	-	-	-

Allowable bending radius: R4

PD-M4P342S-A



Shape of fiber head: M4(Flexible)
Fiber cable length: 2000(Free-cut)
Min.sensing object at the maximum sensitivity: $\phi 0.02$ gold wire

Range:

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	90	46	24	20
● S T D:	110	23	12	10
● FAST:	85	15	8	7
● S - D:	39	-	-	-

Allowable bending radius: R4

- 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.