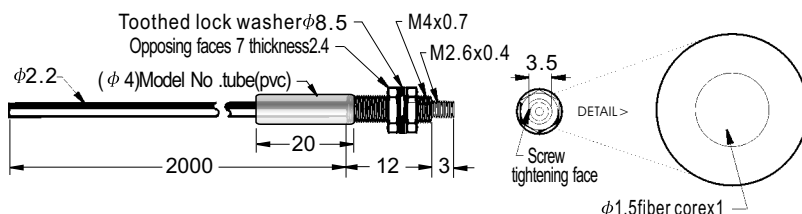


PT-M4P052S-A

Dimensions (mm)

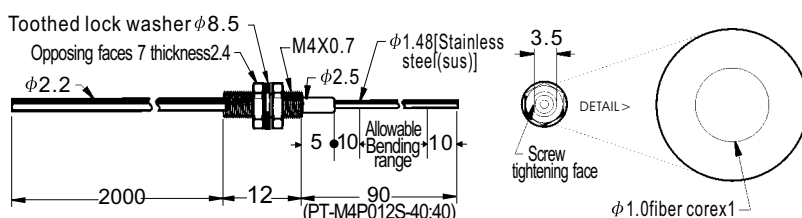


- Shape of fiber head: M4
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.04$ opaque object
- Range:

	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)

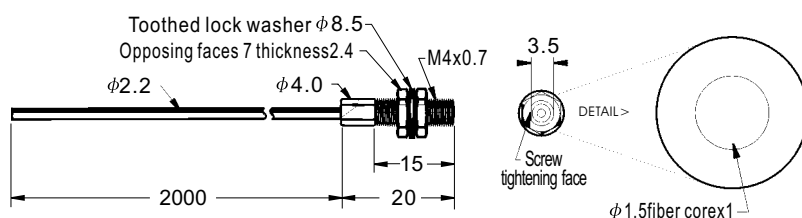


- Shape of fiber head: M4
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.03$ opaque object
- Range:

	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)

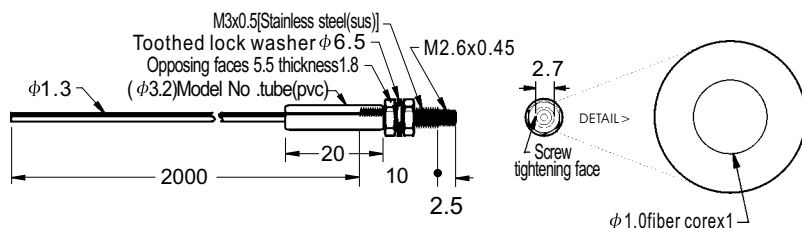


- Shape of fiber head: M4
- Fiber cable length: 2000(Free-cut)Note4
- Min.sensing object at the maximum sensitivity: $\phi 0.03$ opaque object
- Range:

	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

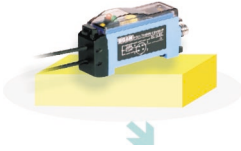
Dimensions (mm)



- Shape of fiber head: M4(Standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.03$ opaque object
- Range:

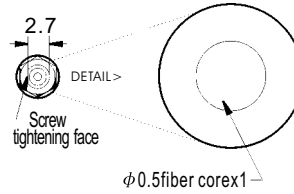
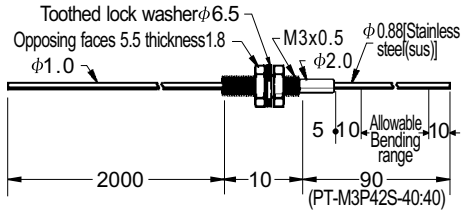
	Red LED	Blue LED	Green LED	Infrared LED
LONG:	780	150	70	50
S T D:	400	75	35	25
FAST:	280	40	24	18
S - D:	130	-	-	-
- Allowable bending radius: R25

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)

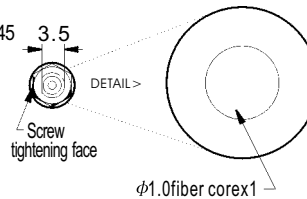
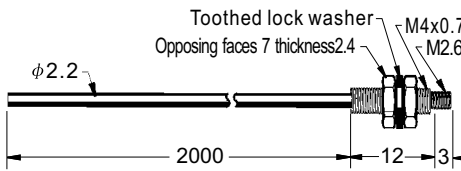


- Shape of fiber head: M3 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.025$ opaque object
- Range:

	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)

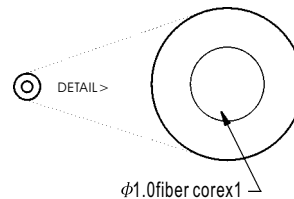
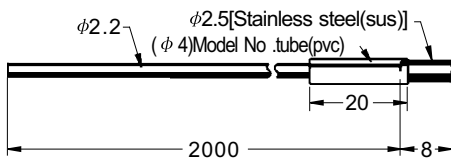


- Shape of fiber head: M6 (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.03$ opaque object
- Range:

	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)

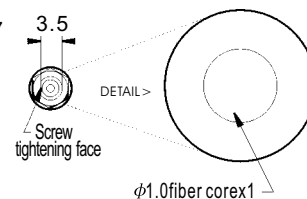
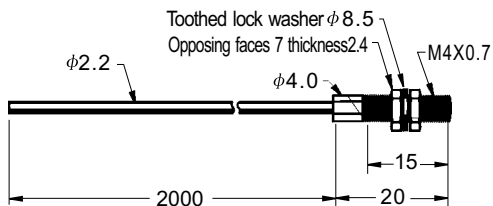


- Shape of fiber head: $\phi 2.5$ (standard)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.03$ opaque object
- Range:

	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: $\phi 0.03$ opaque object
- Range:

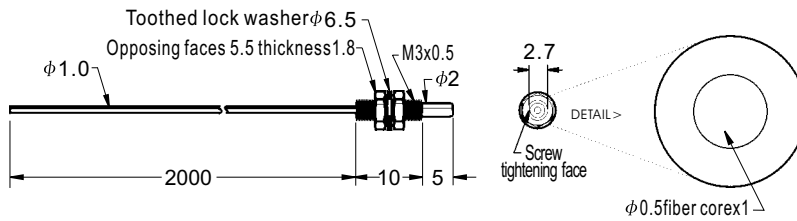
	Red LED	Blue LED	Green LED	Infrared LED
LONG:	700	140	66	45
S T D:	360	70	33	22
FAST:	250	40	22	17
S - D:	126	-	-	-
- Allowable bending radius: R25

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.



PT-M3P042S-5

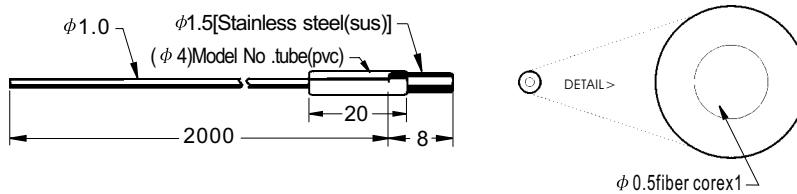
Dimensions (mm)



- Shape of fiber head: M3 (standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum
 - sensitivity: $\phi 0.025$ 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-D15F042S-2

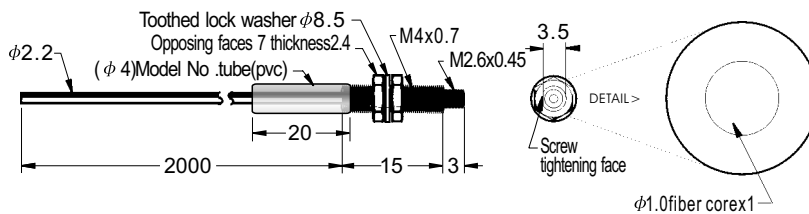
Dimensions (mm)



- Shape of fiber head: 1.5 (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: | 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

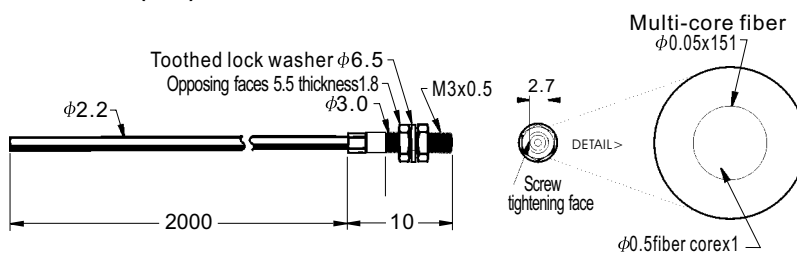
Dimensions (mm)



- Shape of fiber head: M4 (standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum
 - sensitivity: $\phi 0.03$ 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)

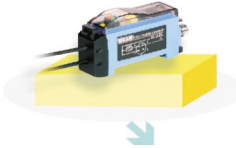


- Shape of fiber head: M3(Sharp bending)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum
 - sensitivity: $\phi 0.02$ opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 160 | 16 | 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.

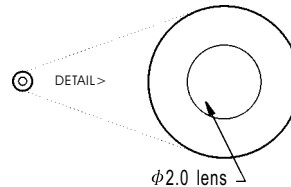
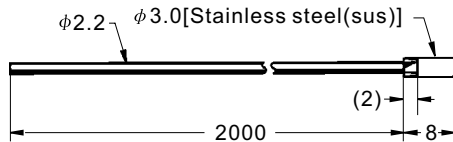
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-D3F022S

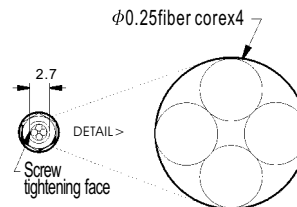
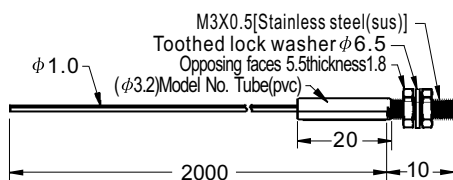
Dimensions (mm)



- 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

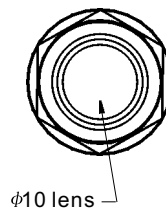
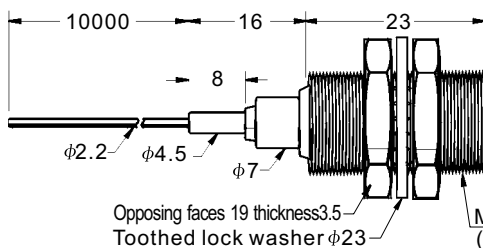
Dimensions (mm)



- 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

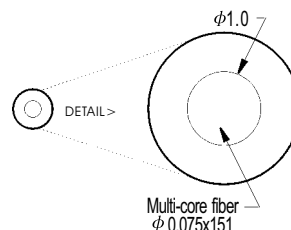
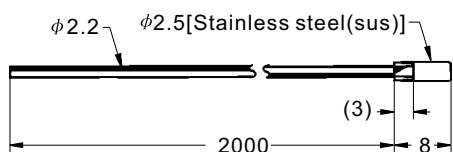
Dimensions (mm)



- 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.

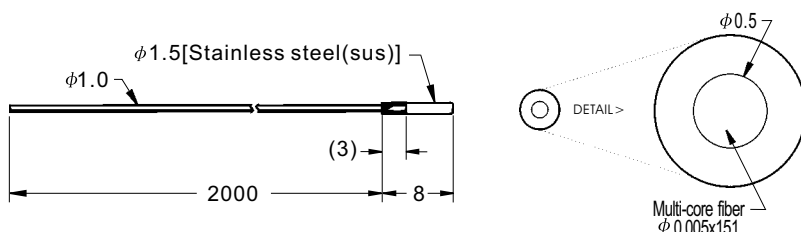
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-D1.5F042S-1

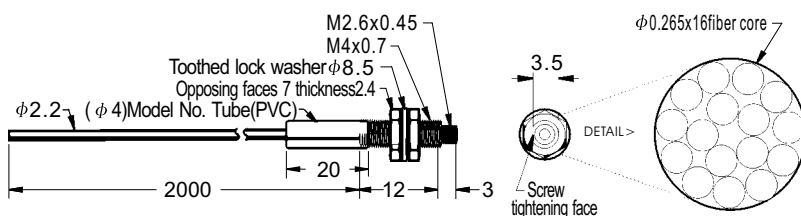
Dimensions (mm)



- Shape of fiber head: M3(Sharp bending)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum
 - sensitivity: $\phi 0.02$ 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

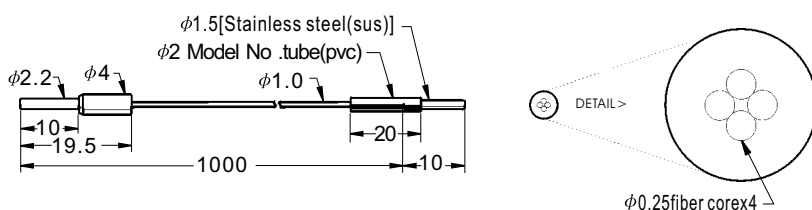
Dimensions (mm)



- Shape of fiber head: M4 (Flexible)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum
 - sensitivity: $\phi 0.04$ 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

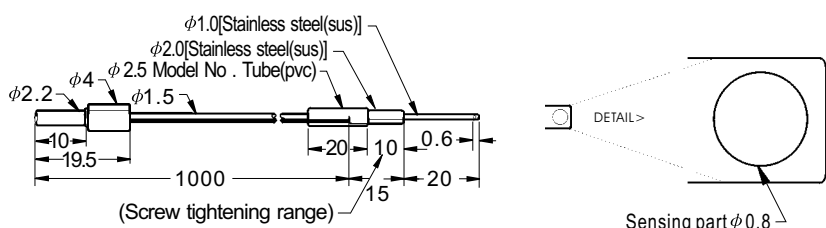
Dimensions (mm)



- Shape of fiber head: 1.5 (Flexible)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum
 - sensitivity: $\phi 0.02$ 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)

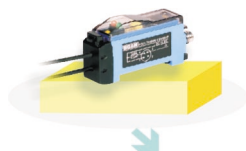


- Shape of fiber head: $\phi 1$ (Standard)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum
 - sensitivity: $\phi 0.02$ opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 390 | 50 | 26 | 44 |
| 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.

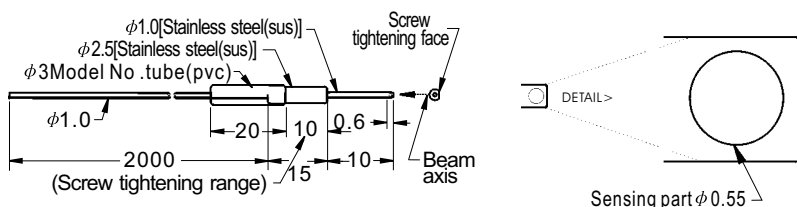
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-D2.5V072S-10

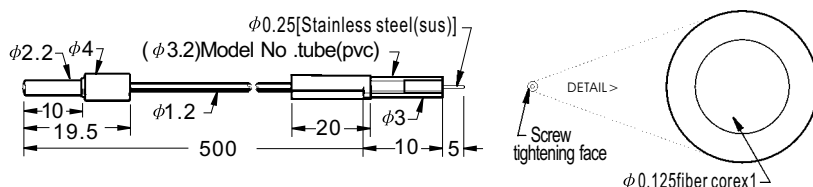
Dimensions (mm)



- Shape of fiber head: $\phi 1$ (standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ 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

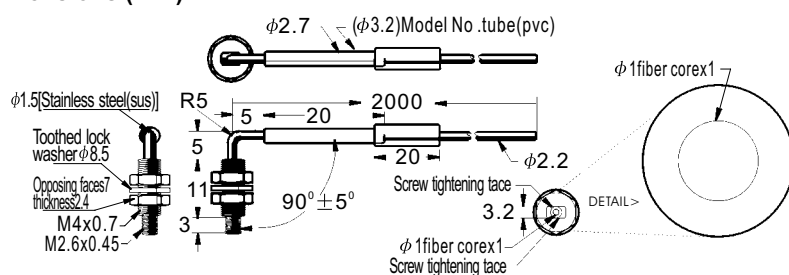
Dimensions (mm)



- Shape of fiber head: $\phi 0.25$ (Special use)
 - Fiber cable length: 500
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ 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

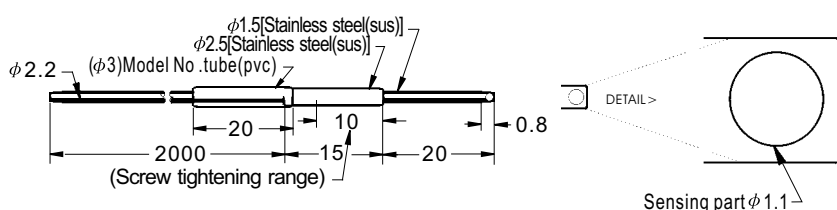
Dimensions (mm)



- Shape of fiber head: M4 (standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.04$ 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)

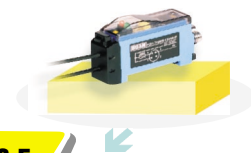


- Shape of fiber head: $\phi 1.5$ (Standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.05$ opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 400 | 80 | 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.

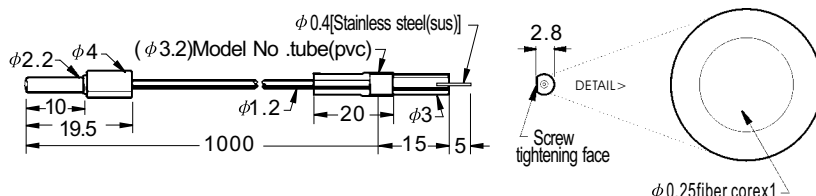
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-D3P061S-5

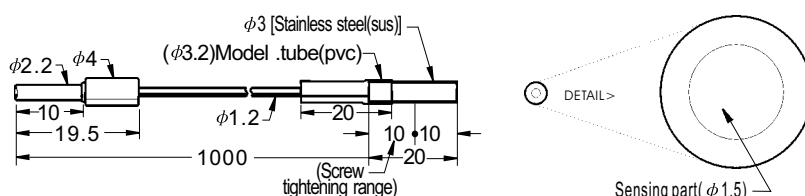
Dimensions (mm)



- Shape of fiber head: $\phi 0.4$ (Special use)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ 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

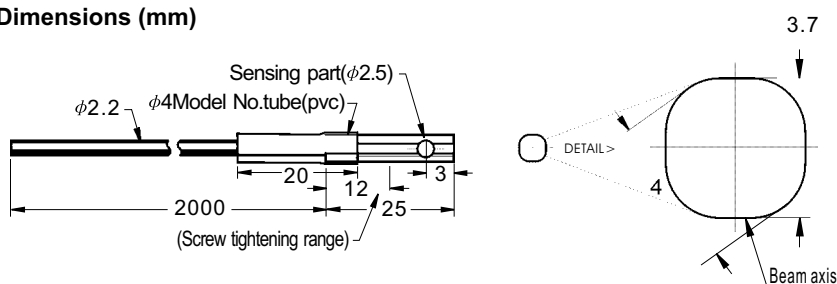
Dimensions (mm)



- Shape of fiber head: M4 (Environment resistant)
 - Fiber cable length: 1000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ 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

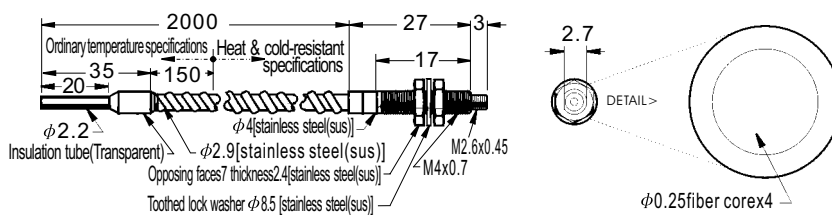
Dimensions (mm)



- Shape of fiber head: $\phi 4$ (Special use)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.06$ 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)

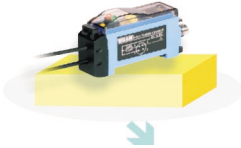


- Shape of fiber head: M4 (Environment resistant)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.04$ opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 550 | 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.

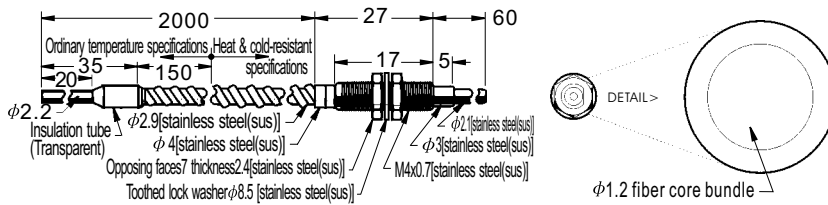
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-M4P112C-60

Dimensions (mm)

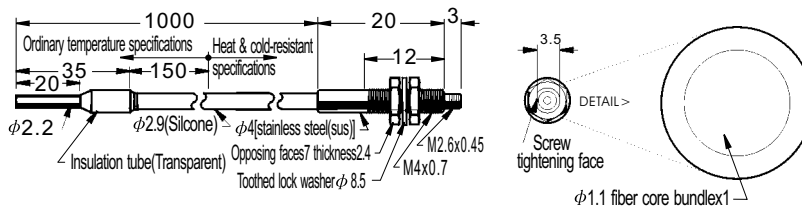


- Shape of fiber head: M4 (Environment resistant)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.04$ opaque object
- Range:

	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)

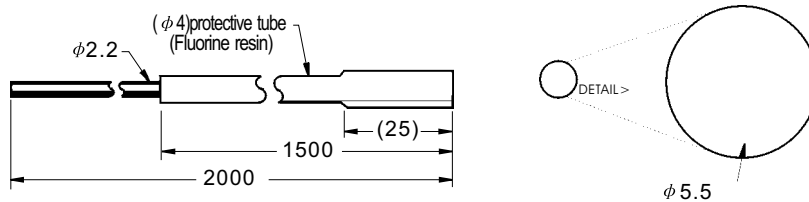


- Shape of fiber head: M4 (Environment resistant)
- Fiber cable length: 1000
- Min.sensing object at the maximum sensitivity: $\phi 0.04$ opaque object
- Range:

	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)

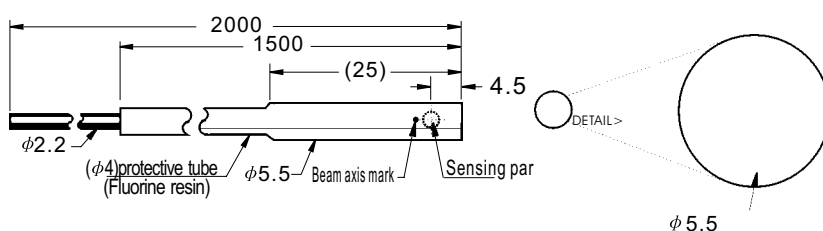


- Shape of fiber head: $\phi 5.5$ (Environment resistant)
- Fiber cable length: 2000(Free-cut)Note3
- Min.sensing object at the maximum sensitivity: $\phi 0.08$ opaque object
- Range:

	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: $\phi 5.5$ (Environment resistant)
- Fiber cable length: 2000(Free-cut)Note3
- Min.sensing object at the maximum sensitivity: $\phi 0.08$ 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.

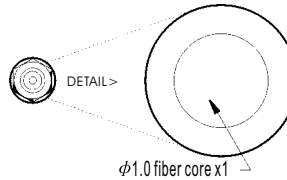
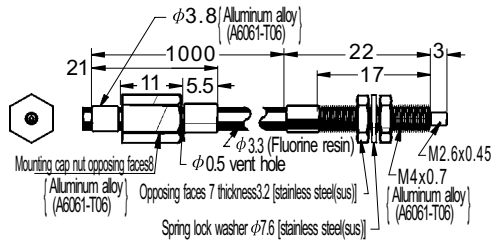
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-M4P011S-3

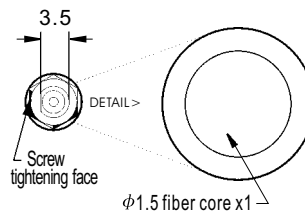
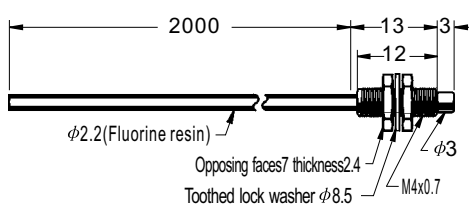
Dimensions (mm)



- Shape of fiber head: M4 (Environment resistant)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ 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

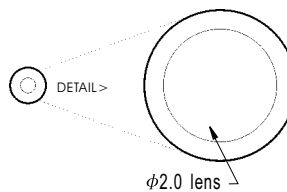
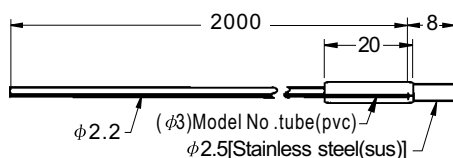
Dimensions (mm)



- Shape of fiber head: M4 (Environment resistant)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.06$ 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

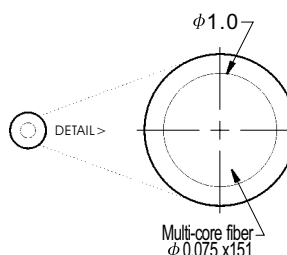
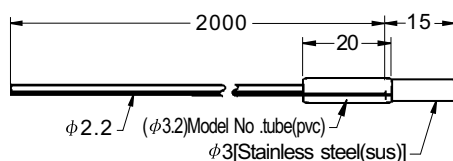
Dimensions (mm)



- Shape of fiber head: $\phi 2.5$ (standard)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.02$ 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)

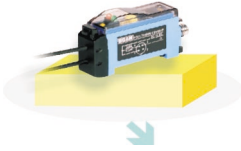


- Shape of fiber head: $\phi 3$ (sharp bending)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum sensitivity: $\phi 0.05$ opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 570 | 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.

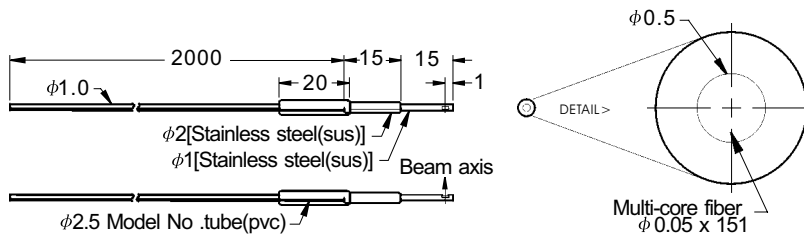
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-D2V0.52S

Dimensions (mm)



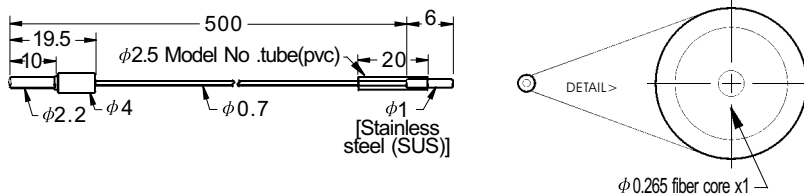
- Shape of fiber head: $\phi 1$ (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ opaque object
- Range:

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

- Allowable bending radius: R1

PT-D1F330.5S

Dimensions (mm)



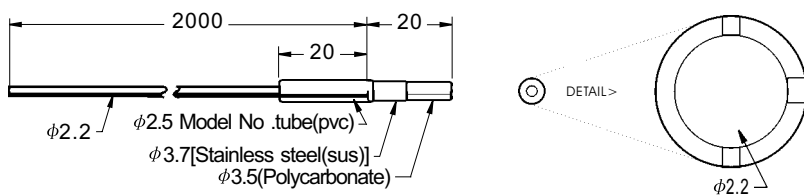
- Shape of fiber head: $\phi 1$ (Flexible)
- Fiber cable length: 500
- Min.sensing object at the maximum sensitivity: $\phi 0.02$ opaque object
- Range:

	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)



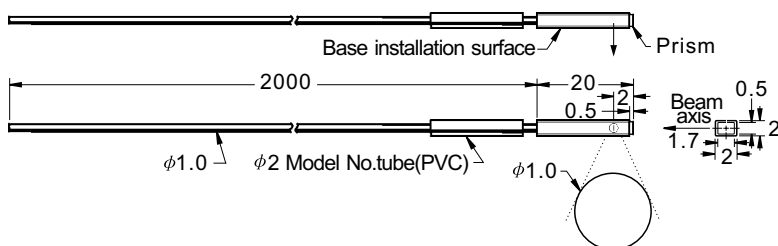
- Shape of fiber head: $\phi 3.5$ (Sepcial use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: $\phi 0.06$ opaque object
- Range:

	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: $\phi 0.02$ 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.

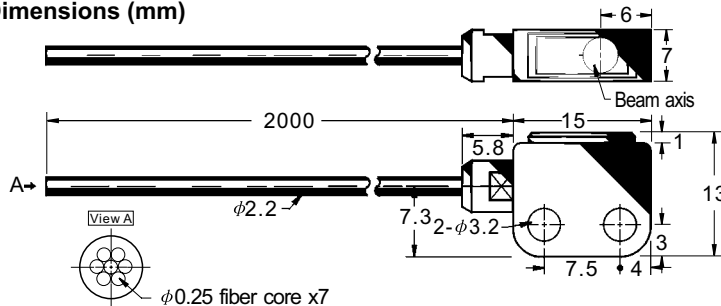
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-DLE80672S

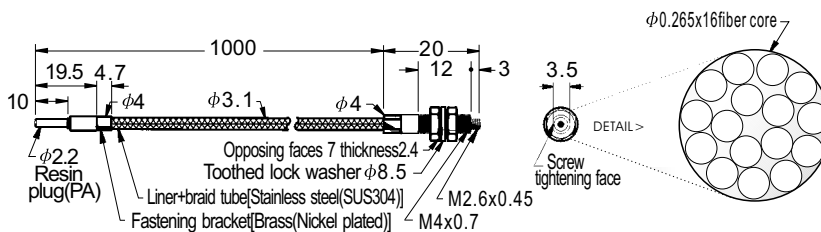
Dimensions (mm)



- Shape of fiber head: W7xH15xD13 (Environment resistant)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum
 - sensitivity: φ4 opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 3500 | 320 | 160 | 320 |
| S T D: | 1500 | 160 | 80 | 160 |
| FAST: | 1000 | 120 | 60 | 120 |
| S - D: | 530 | - | - | - |
- Allowable bending radius: R25

PT-M4P191S-A

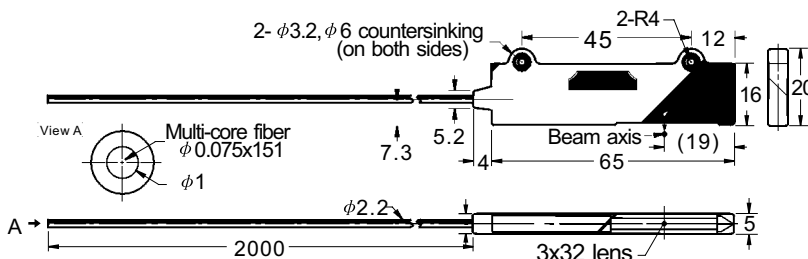
Dimensions (mm)



- Shape of fiber head: M4 (Special use)
 - Fiber cable length: 1000
 - Min.sensing object at the maximum
 - sensitivity: φ0.05 opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 650 | 130 | 64 | 130 |
| S T D: | 320 | 64 | 32 | 64 |
| FAST: | 230 | 45 | 22 | 45 |
| S - D: | 110 | - | - | - |
- Allowable bending radius: R10

PT-DN592S

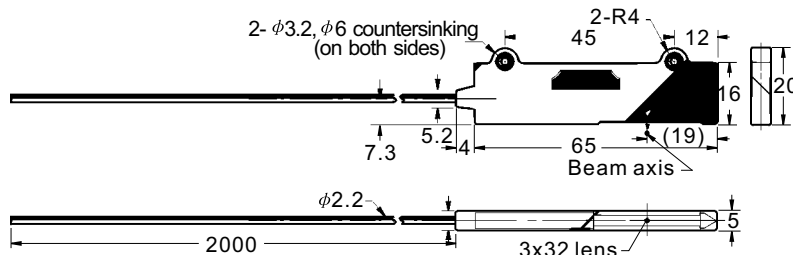
Dimensions (mm)



- Shape of fiber head: W5xH69xD20 (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: | 3500 | 2400 | 1200 | 800 |
| S T D: | 3500 | 1200 | 600 | 400 |
| FAST: | 3500 | 700 | 350 | 240 |
| S - D: | 3500 | - | - | - |
- (Note3)
- Allowable bending radius: R1

PT-DN592S-1

Dimensions (mm)

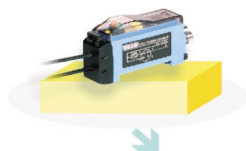


- Shape of fiber head: W5xH69xD20 (Special use)
 - Fiber cable length: 2000(Free-cut)
 - Min.sensing object at the maximum
 - sensitivity: φ0.03 opaque object
 - Range:
- | | Red LED | Blue LED | Green LED | Infrared LED |
|--------|---------|----------|-----------|--------------|
| LONG: | 3500 | 2400 | 1200 | 800 |
| S T D: | 3500 | 1200 | 600 | 400 |
| FAST: | 3500 | 700 | 350 | 240 |
| S - D: | 3500 | - | - | - |
- (Note3)
- Allowable bending radius: R10

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

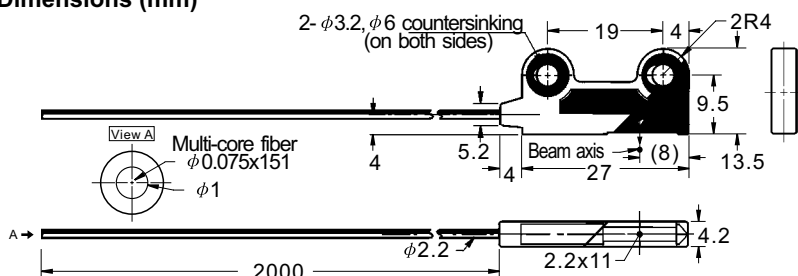
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-D0602S

Dimensions (mm)



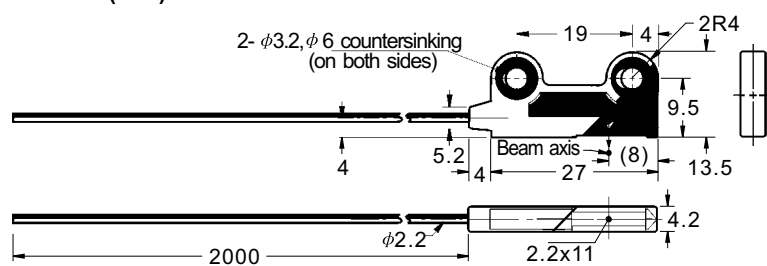
- **Shape of fiber head:** W4.2xH31xD13.5
(Sharp bending)
- **Fiber cable length:** 2000(Free-cut)
- **Min.sensing object at the maximum sensitivity:** ϕ 0.25 opaque object
- **Range :**

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	3500	600	300	220
● STD:	1500	300	150	110
● FAST:	1100	220	110	80
● S - D:	750	-	-	-

- Allowable bending radius: R_1

PT-D0602S-1

Dimensions (mm)



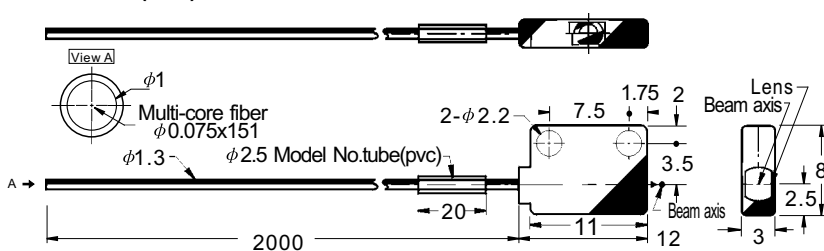
- **Shape of fiber head:** W4.2xH31x ϕ 13.5
(Sharp bending)
- **Fiber cable length:** 2000(Free-cut)
- **Min.sensing object at the maximum**
- **sensitivity:** ϕ 0.25 opaque object
- **Range :**

	Red LED	Blue LED	Green LED	Infrared LED
● LONG:	3500	600	300	220
● S T D:	1500	300	150	110
● FAST:	1100	220	110	80
● S - D:	750	-	-	-

- Allowable bending radius: R10

PT-DL612S

Dimensions (mm)



- **Shape of fiber head:** W3xH12xD8
(Sharp bending)
- **Fiber cable length:** 2000(Free-cut)
- **Min.sensing object at the maximum sensitivity:** $\phi 0.08$ opaque object

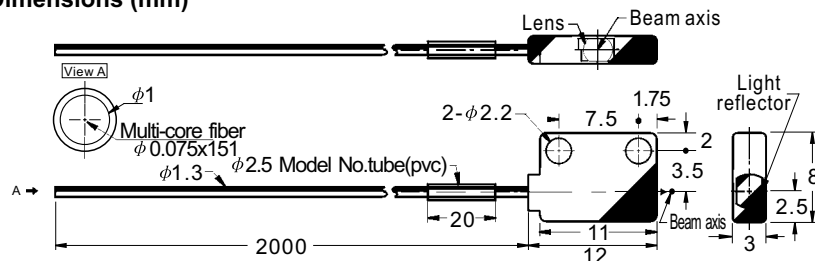
– Range :

	Red LED	Blue LED	Green LED	Infrared LED
● LONG :	2500	400	200	180
● S T D :	1200	200	100	90
● FAST :	850	140	70	65
● S - D :	410	-	-	-

- Allowable bending radius: $R1$

PT-DL612S-1

Dimensions (mm)



- **Shape of fiber head:** W3xH12xD8
(Sharp bending)
- **Fiber cable length:** 2000(Free-cut)
- **Min.sensing object at the maximum sensitivity:** $\phi 0.03$ opaque object

	Red LED	Blue LED	Green LED	Infrared LED
● LONG :	1500	240	120	100
● S T D :	700	120	60	50
● FAST :	500	80	40	30
● S - D :	210	-	-	-

- Allowable bending radius: R1

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

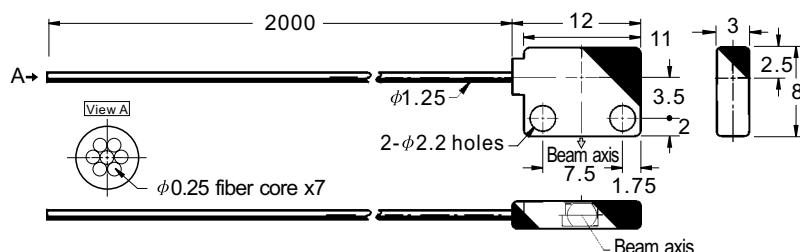
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.

3) The minimum sensing from the rated sensing range.



PT-DL612S-3

Dimensions (mm)

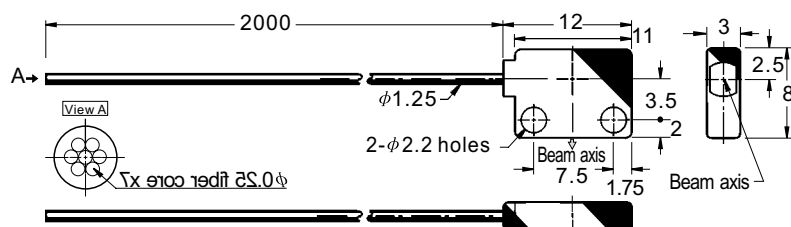


- Shape of fiber head: W3xH12xD8 (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: $\phi 0.03$ opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	1600	400	200	140
S T D:	800	200	100	70
FAST:	600	140	65	50
S - D:	280	-	-	-
- Allowable bending radius: R4

PT-DL612S-4

Dimensions (mm)

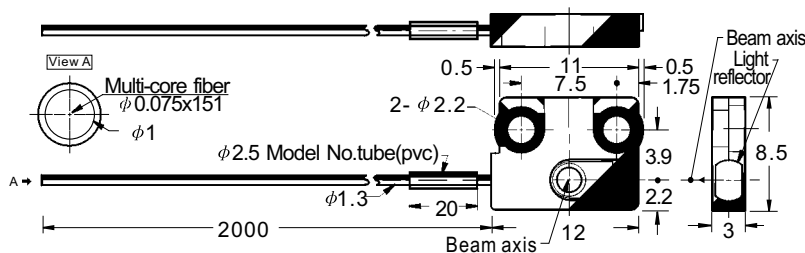


- Shape of fiber head: W3xH8xD12 (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: $\phi 0.03$ opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	2700	560	200	180
S T D:	1400	280	100	90
FAST:	1000	200	65	65
S - D:	490	-	-	-
- Allowable bending radius: R4

PT-DU622S

Dimensions (mm)

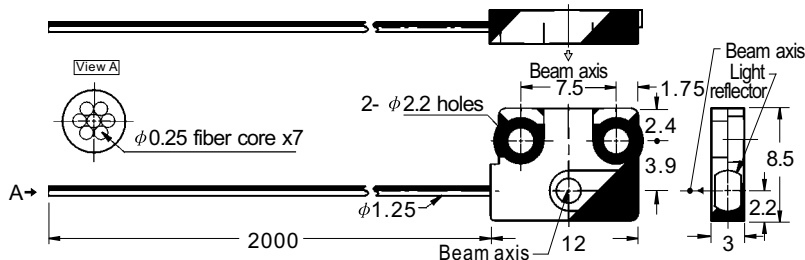


- Shape of fiber head: W8.5xH12xD3 (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: $\phi 0.04$ opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	700	80	40	36
S T D:	330	40	20	18
FAST:	240	25	13	12
S - D:	120	-	-	-
- Allowable bending radius: R1

PT-DU622S-1

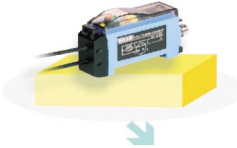
Dimensions (mm)



- Shape of fiber head: W8.5xH12xD3 (Sharp bending)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: $\phi 0.03$ opaque object
- Range:

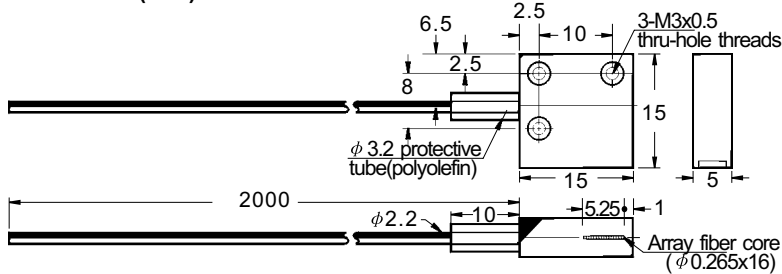
	Red LED	Blue LED	Green LED	Infrared LED
LONG:	800	120	60	46
S T D:	400	60	30	23
FAST:	300	40	22	16
S - D:	140	-	-	-
- Allowable bending radius: R4

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.



PT-DB642S

Dimensions (mm)

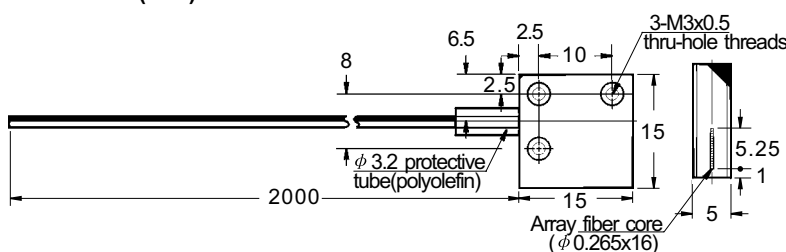


- Shape of fiber head: W5xH15xD15 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: Horizontal 0.025 opaque object
Vertical 0.45 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	590	120	60	48
S T D:	290	60	30	24
FAST:	200	40	20	18
S - D:	100	-	-	-
- Allowable bending radius: R25

PT-DC642S

Dimensions (mm)

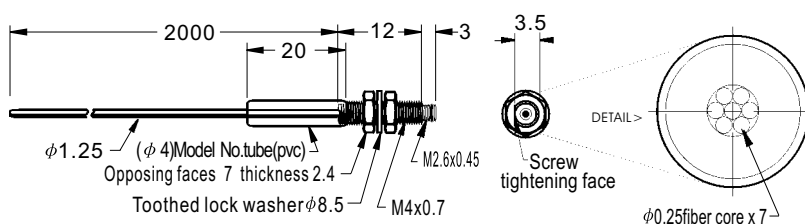


- Shape of fiber head: W5xH15xD15 (Special use)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: Horizontal 0.025 opaque object
Vertical 0.45 opaque object
- Range:

	Red LED	Blue LED	Green LED	Infrared LED
LONG:	650	120	60	48
S T D:	330	60	30	24
FAST:	220	40	20	18
S - D:	115	-	-	-
- Allowable bending radius: R25

PT-M4P322S-A

Dimensions (mm)

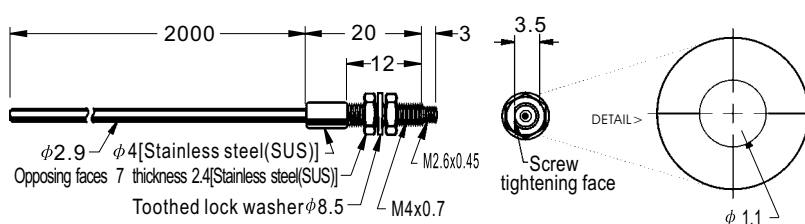


- Shape of fiber head: M3(special)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum sensitivity: ϕ 0.02 gold wire
- Range:

	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

PT-M4P092S-A

Dimensions (mm)



- Shape of fiber head: M4(Environment Resistant)
- Fiber cable length: 1000
- Min.sensing object at the maximum sensitivity: ϕ 0.04 gold wire
- Range:

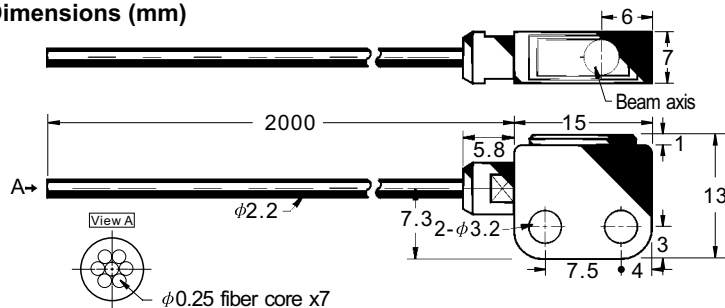
	Red LED	Blue LED	Green LED	Infrared LED
LONG:	550	100	50	420
S T D:	280	50	25	210
FAST:	200	35	18	160
S - D:	90	-	-	-
- Allowable bending radius: R25

- 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-DLE80672S

Dimensions (mm)



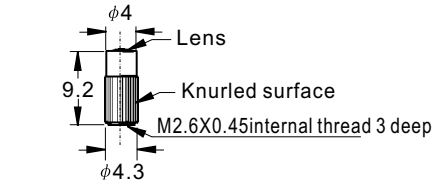
- Shape of fiber head: W7xH15xD13
(Environment resistant)
- Fiber cable length: 2000(Free-cut)
- Min.sensing object at the maximum
- sensitivity: $\phi 4$ opaque object
- Range :

	Red LED	Blue LED	Green LED	Infrared LED
LONG :	3500	320	160	320
S T D :	1500	160	80	160
FAST :	1000	120	60	120
S - D :	530	-	-	-
- Allowable bending radius: R25



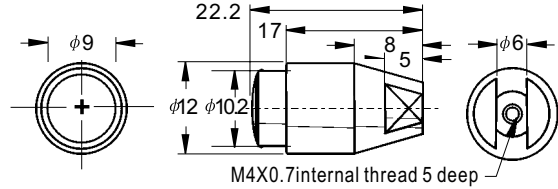
- Notes:** 1) The sensing range is specified for white non-glossy paper(100x100mm)as the object.
2) please take care that the sensing of the free-cut type fiber may be reduced by 20% max. Depending upon how the fiber is cut.
3) The minimum sensing from the rated sensing range.

S-FX-LE1 Expansion lens(Optional)



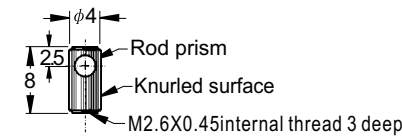
MATERIAL: ENCLOSURE.....BRASS(NICKEL PLATED)
LENS.....GLASS

S-FX-LE2 Super- expansion lens (Optional)



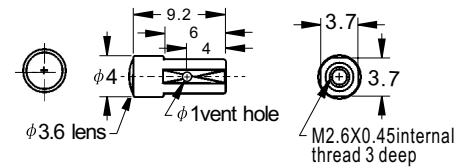
MATERIAL: ENCLOSURE.....STAINLESS STEEL (SUS303)
LENS.....GLASS

S-FX-SV1 Side-view lens(Optional)



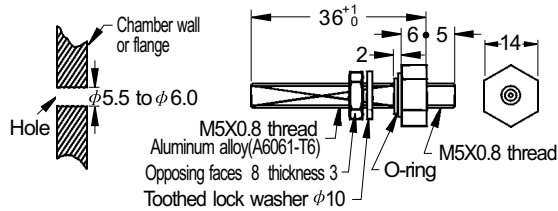
MATERIAL: ENCLOSURE.....BRASS(NICKEL PLATED)
LENS.....GLASS

S-FV-LE1 Expansion lens(For vacuum type fiber)

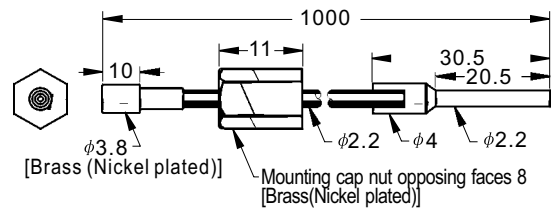


MATERIAL: ENCLOSURE.....ALUMINUM ALLOY (A6061-T6)
LENS.....BK-7

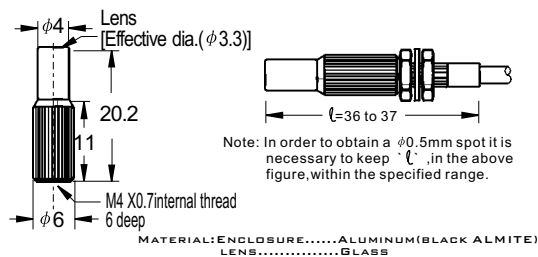
S-FV-BR1 Photo-terminal(For vacuum type fiber)



S-FT-J6 Fiber at atmospheric side (For vacuum type fiber)

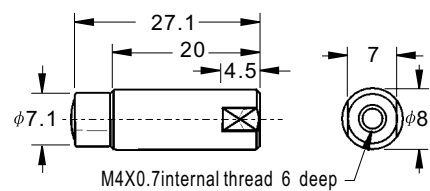


S-FX-MR1 Pinpoint spot lensOptional)



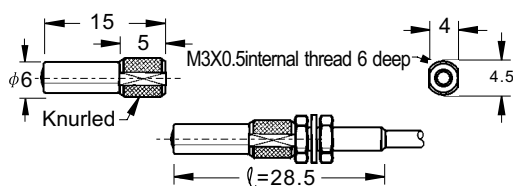
MATERIAL: ENCLOSURE.....ALUMINUM(BLACK ALMITE)
LENS.....GLASS

S-FX-MR2 Zoom lens (Optional)



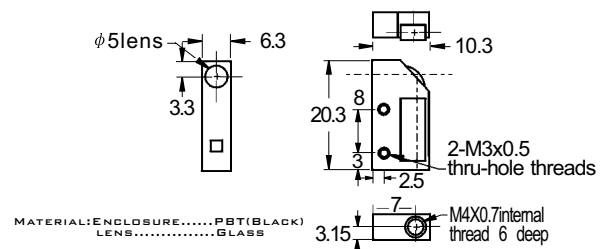
MATERIAL: ENCLOSURE.....ALUMINUM ALLOY (BLACK ALMITE)
LENS.....GLASS

S-FX-MR3 Finest spot lens(Optional)



MATERIAL: ENCLOSURE.....ALUMINUM(BLACK ALMITE)
LENS.....GLASS

S-FX-MR5 Zoom lens (Optional)

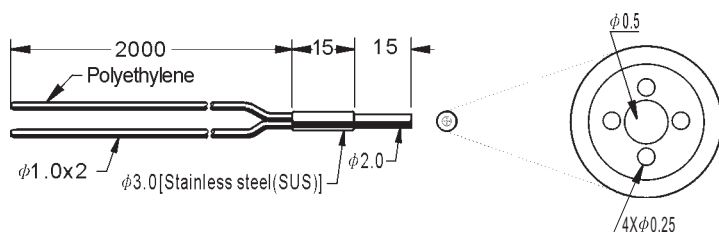


Diffuse Mode Bifurcated Cables

Plastic Fibers

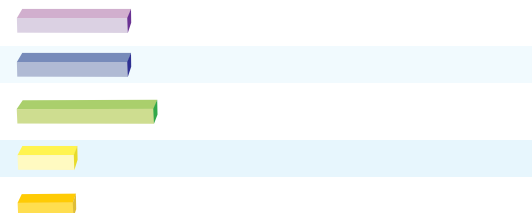


Dimensions (mm)

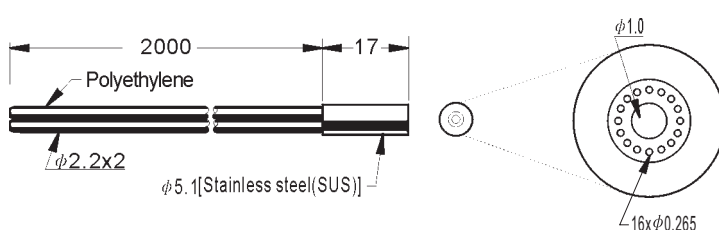


Model number	Length	Bundle	Sheath
PD-D2F422S	2000	4xϕ0.25	Polyethylene

Range (mm)

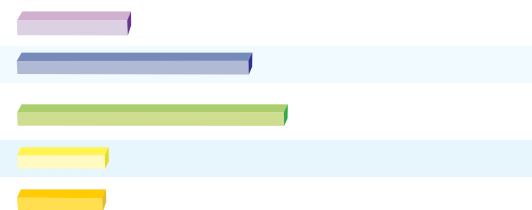


Dimensions (mm)

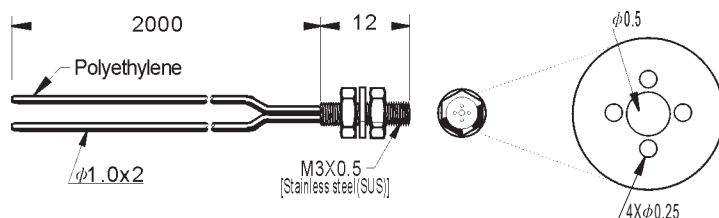


Model number	Length	Bundle	Sheath
PD-D5.1F432S	2000	16xϕ0.265+1	Polyethylene

Range (mm)

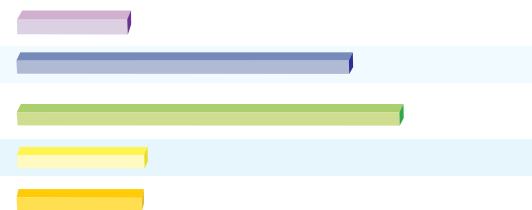


Dimensions (mm)

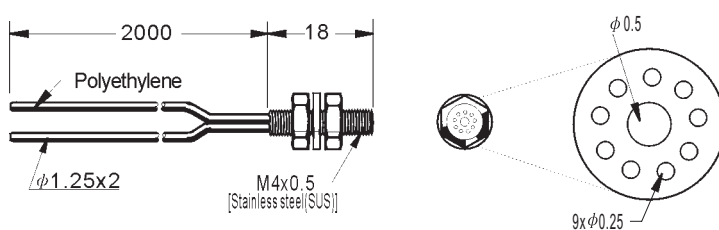


Model number	Length	Bundle	Sheath
PD-M3T422S	2000	4xϕ0.25+0.5	Polyethylene

Range (mm)

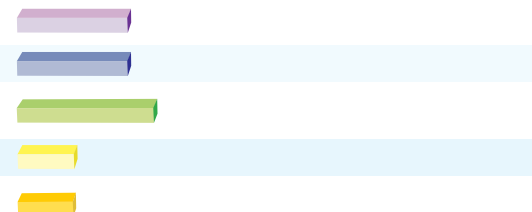


Dimensions (mm)

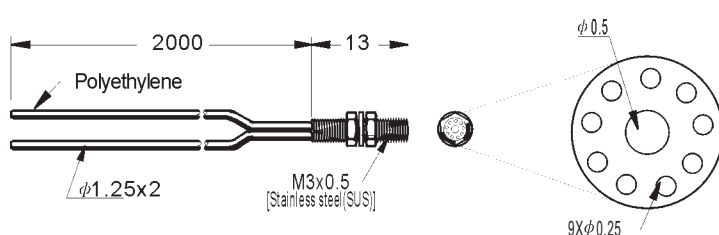


Model number	Length	Bundle	Sheath
PD-M4T442S	2000	9xϕ0.25+0.5	Polyethylene

Range (mm)

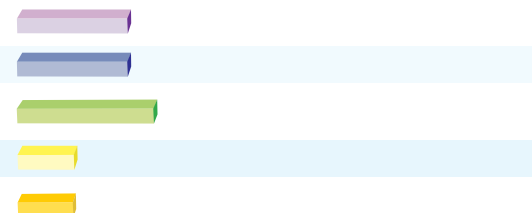


Dimensions (mm)



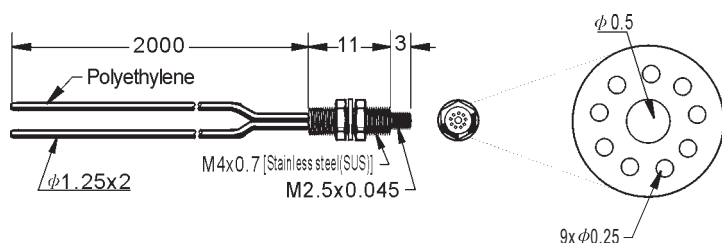
Model number	Length	Bundle	Sheath
PD-M3T442S	2000	9xϕ0.25+0.5	Polyethylene

Range (mm)



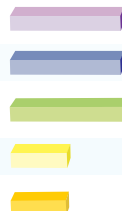


Dimensions (mm)

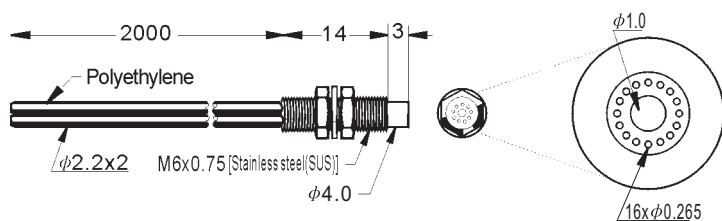


Model number	Length	Bundle	Sheath
PD-M4P442S-E	2000	9x ϕ 0.25	Polyethylene

Range (mm)

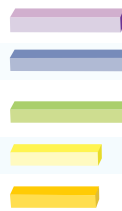


Dimensions (mm)

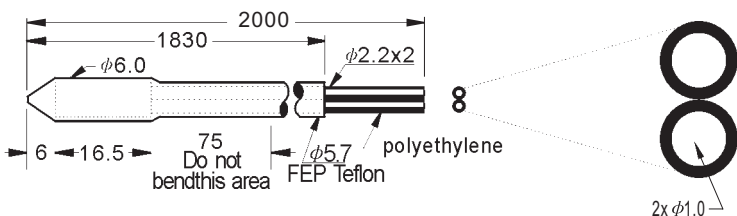


Model number	Length	Bundle	Sheath
PD-M6P432S-3	2000	16x ϕ 0.265	Polyethylene

Range (mm)

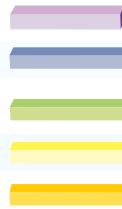


Dimensions (mm)

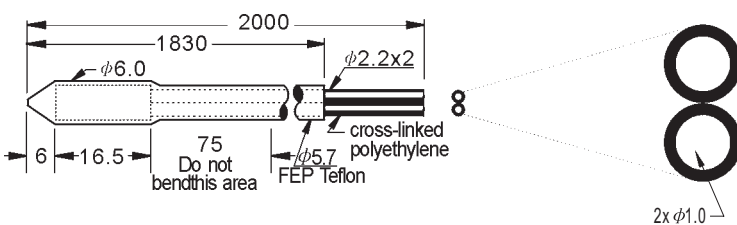


Model number	Length	Bundle	Sheath
PD-D6F2S	2000	2x ϕ 1.0	Polyethylene

Range (mm)

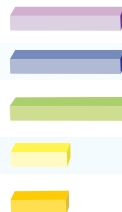


Dimensions (mm)

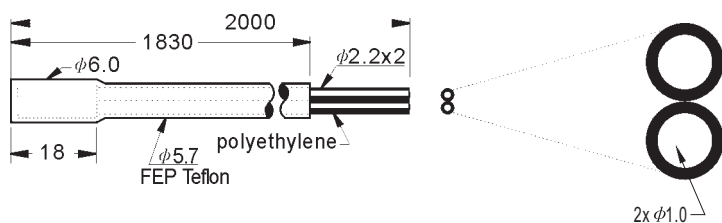


Model number	Length	Bundle	Sheath
PD-D6F2S-1	2000	2x ϕ 1.0	Polyethylene

Range (mm)

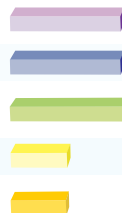


Dimensions (mm)



Model number	Length	Bundle	Sheath
PD-D6F2S-2	2000	2x ϕ 1.0	Polyethylene

Range (mm)

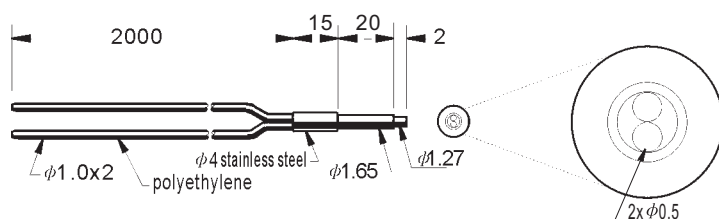


Diffuse Mode Bifurcated Cables

Plastic Fibers

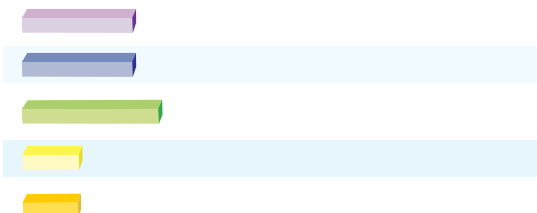


Dimensions (mm)

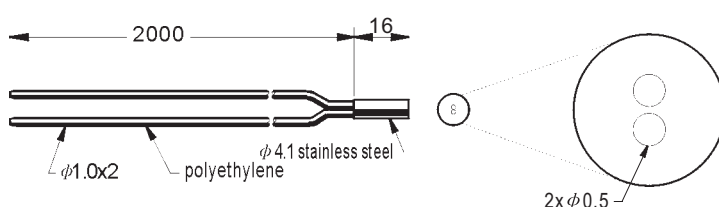


Model number	Length	Bundle	Sheath
PD-D1.65F152S-K	2000	2x ϕ 0.5	Polyethylene

Range (mm)

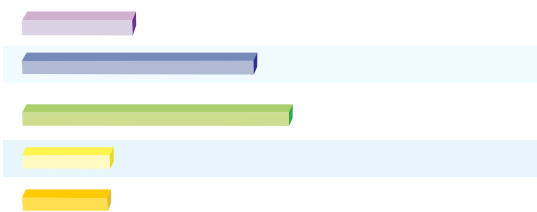


Dimensions (mm)

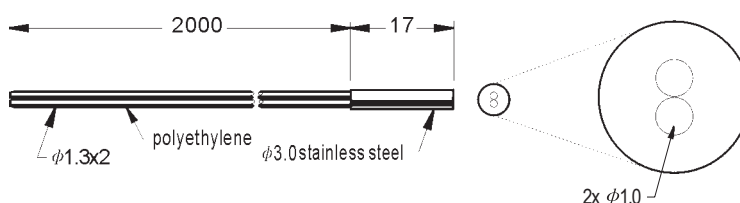


Model number	Length	Bundle	Sheath
PD-D4.1F152S	2000	2x ϕ 0.5	Polyethylene

Range (mm)

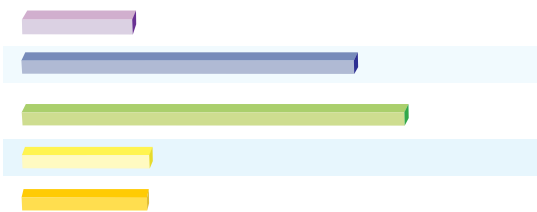


Dimensions (mm)

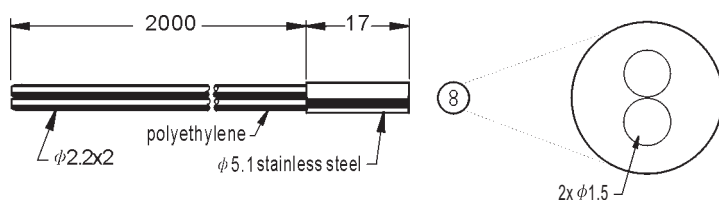


Model number	Length	Bundle	Sheath
PD-D3F142S	2000	2x ϕ 1.0	Polyethylene

Range (mm)

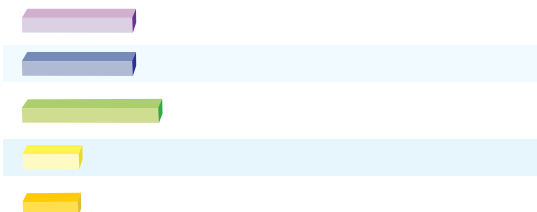


Dimensions (mm)

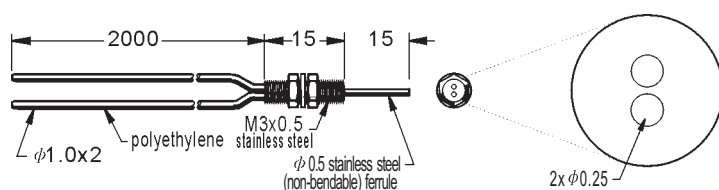


Model number	Length	Bundle	Sheath
PD-D5.1F172S	2000	2x ϕ 1.5	Polyethylene

Range (mm)

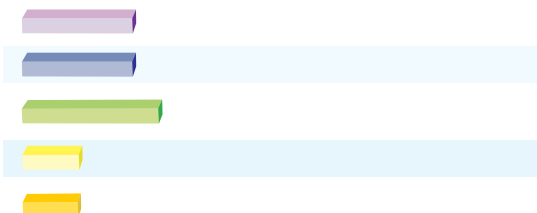


Dimensions (mm)



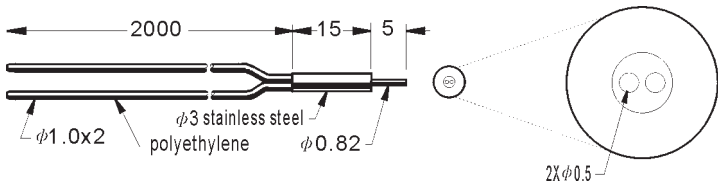
Model number	Length	Bundle	Sheath
PD-M3P392S	2000	2x ϕ 0.25	Polyethylene

Range (mm)

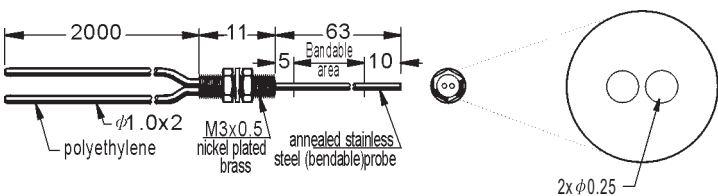




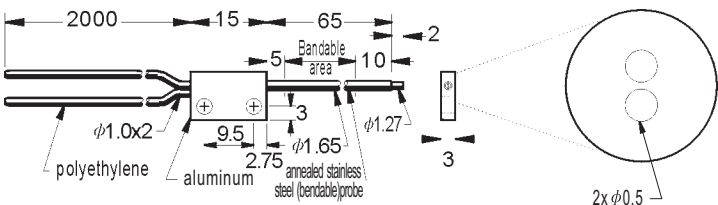
Dimensions (mm)



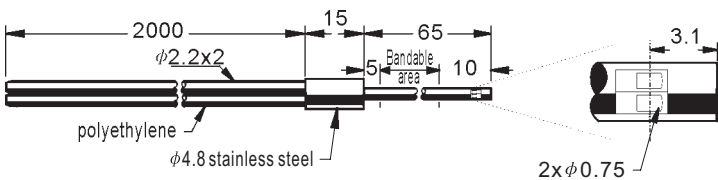
Dimensions (mm)



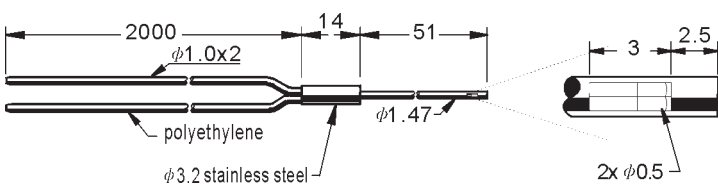
Dimensions (mm)



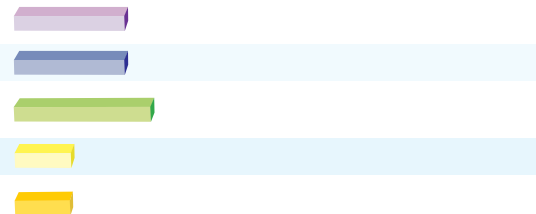
Dimensions (mm)



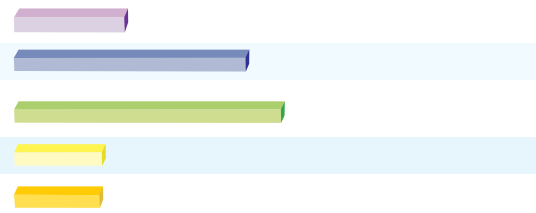
Dimensions (mm)



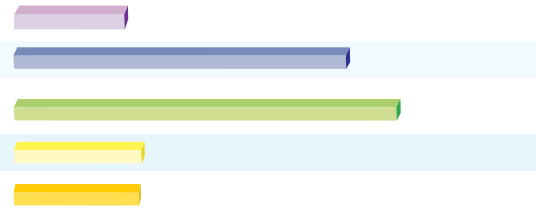
Model number	Length	Bundle	Sheath
PD-D3F152S	2000	2x ϕ 0.05	Polyethylene
Range (mm)			



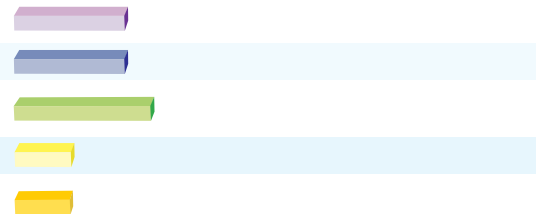
Model number	Length	Bundle	Sheath
PD-M3P392S-63	2000	2x ϕ 0.25	Polyethylene
Range (mm)			



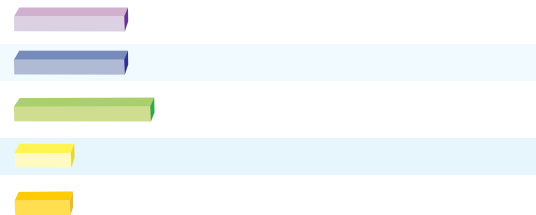
Model number	Length	Bundle	Sheath
PD-D1.65F152S	2000	2x ϕ 0.5	Polyethylene
Range (mm)			



Model number	Length	Bundle	Sheath
PD-D4.8V562S	2000	2x ϕ 0.75	Polyethylene
Range (mm)			



Model number	Length	Bundle	Sheath
PD-D3.2V152S	2000	2x ϕ 0.5	Polyethylene
Range (mm)			

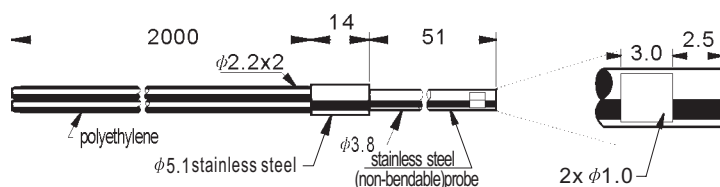


Diffuse Mode Bifurcated Cables

Plastic Fibers

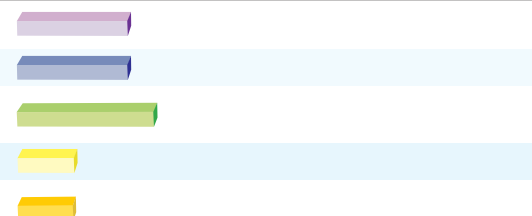


Dimensions (mm)

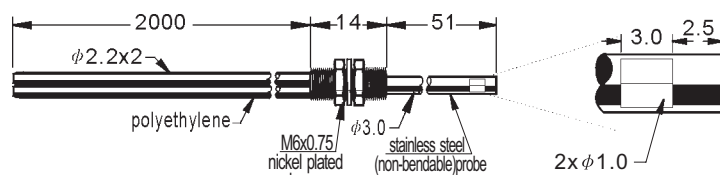


Model number	Length	Bundle	Sheath
PD-D5.1V142S	2000	2x ϕ 1.0	Polyethylene

Range (mm)

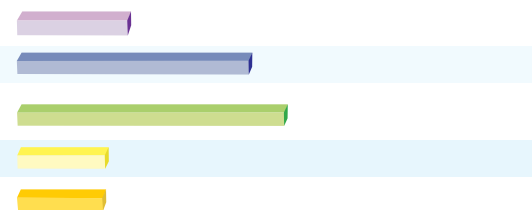


Dimensions (mm)

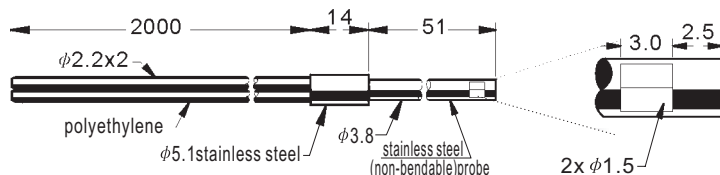


Model number	Length	Bundle	Sheath
PD-M6P142S-51	2000	2x ϕ 1.0	Polyethylene

Range (mm)

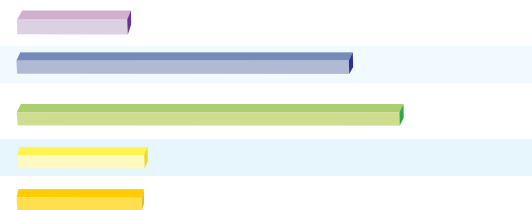


Dimensions (mm)

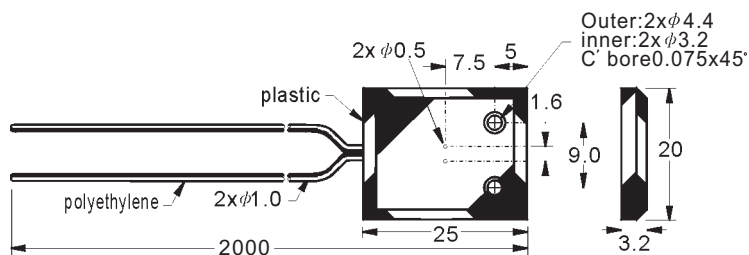


Model number	Length	Bundle	Sheath
PD-D5.1V172S	2000	2x ϕ 1.5	Polyethylene

Range (mm)

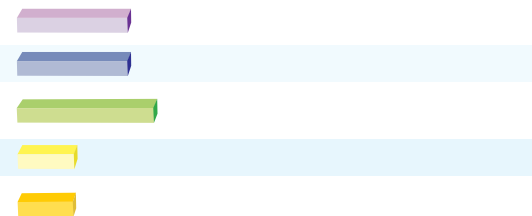


Dimensions (mm)

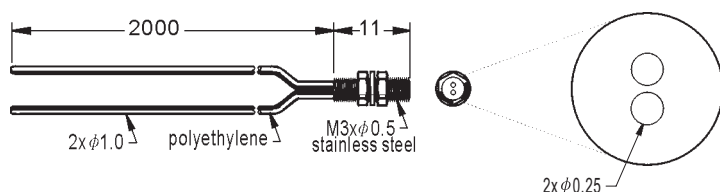


Model number	Length	Bundle	Sheath
PD-DH151S	2000	2x ϕ 0.5	Polyethylene

Range (mm)

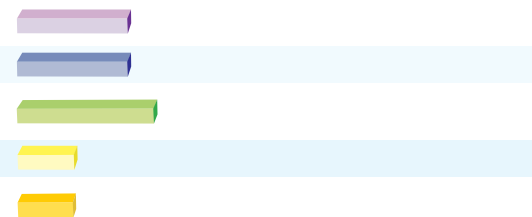


Dimensions (mm)



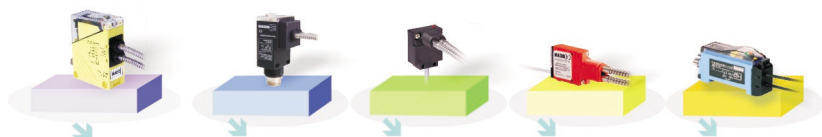
Model number	Length	Bundle	Sheath
PD-M3T392S	2000	2x ϕ 0.25	Polyethylene

Range (mm)

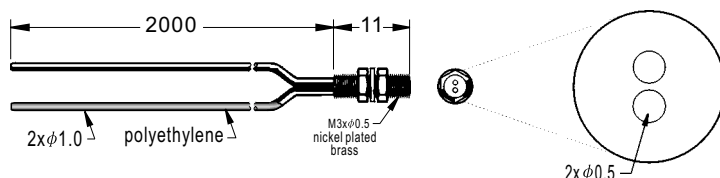


Plastic Fibers

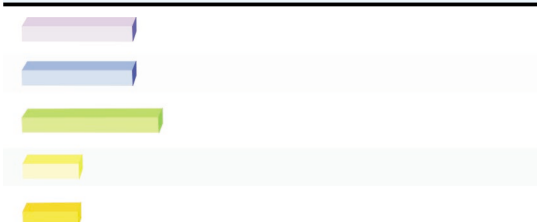
Diffuse Mode Bifurcated Cables



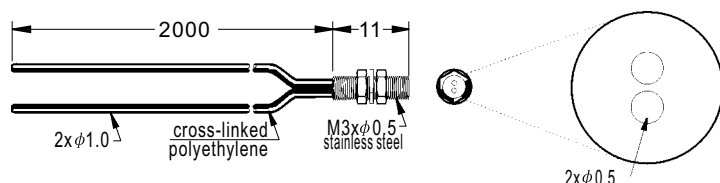
Dimensions (mm)



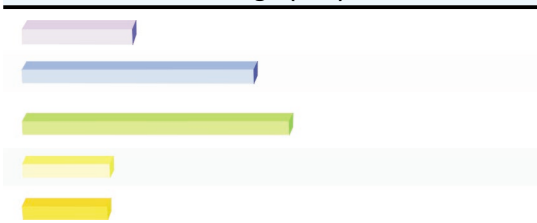
Model number	Length	Bundle	Sheath
PD-M3T152S	2000	2xφ0.5	Polyethylene
Range (mm)			



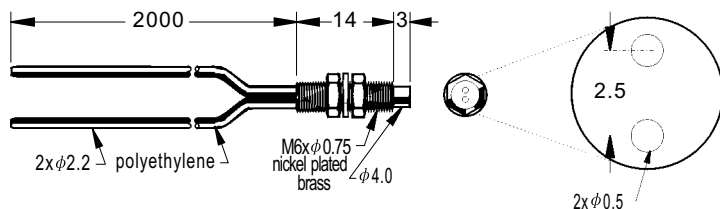
Dimensions (mm)



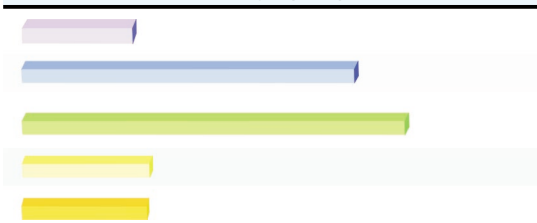
Model number	Length	Bundle	Sheath
PD-M3T152S-1	2000	2xφ0.5	Polyethylene
Range (mm)			



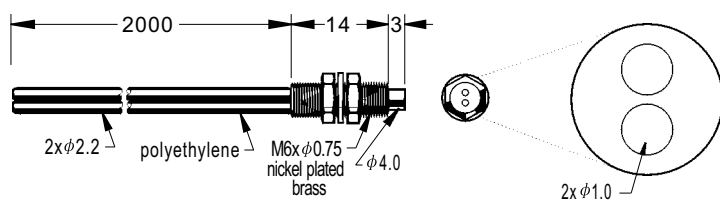
Dimensions (mm)



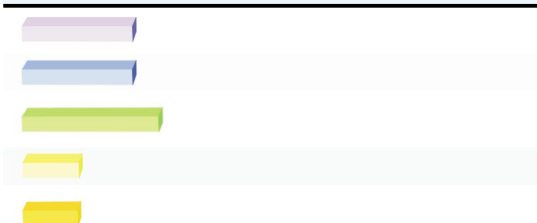
Model number	Length	Bundle	Sheath
PD-M6P152S-3	2000	2xφ0.5	Polyethylene
Range (mm)			



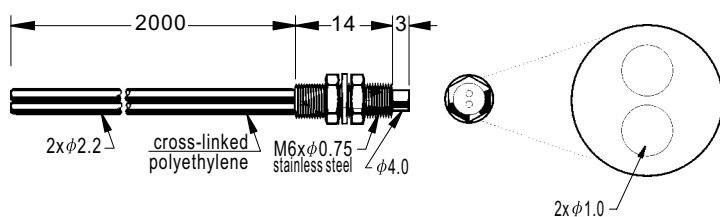
Dimensions (mm)



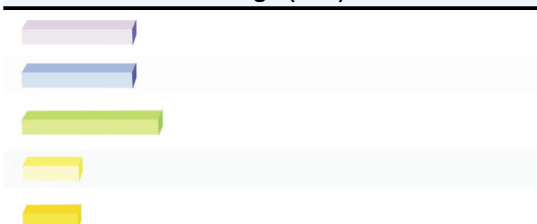
Model number	Length	Bundle	Sheath
PD-M6P142S-3	2000	2xφ1.0	Polyethylene
Range (mm)			



Dimensions (mm)

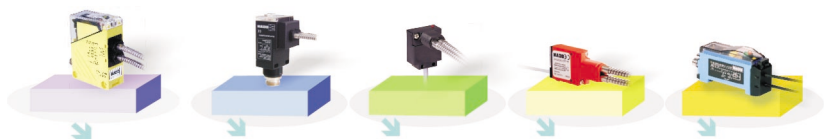


Model number	Length	Bundle	Sheath
PD-M6P142S-31	2000	2xφ1.0	Polyethylene
Range (mm)			

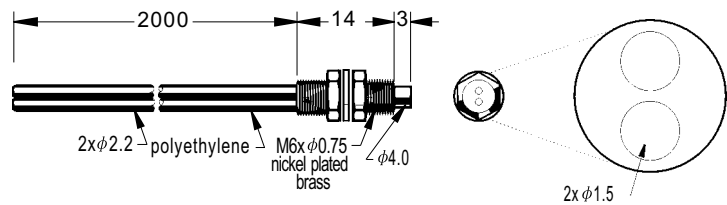


Diffuse Mode
Bifurcated Cables

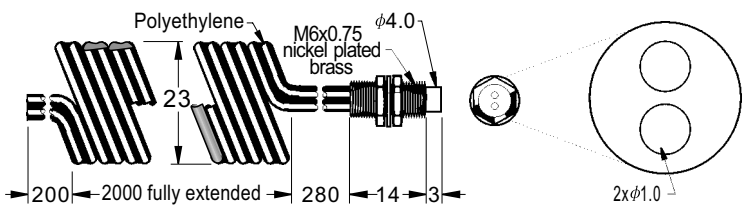
Plastic Fibers



Dimensions (mm)



Dimensions (mm)

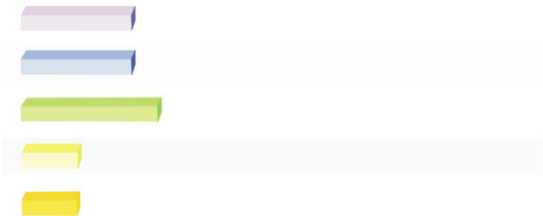


Dimensions (mm)

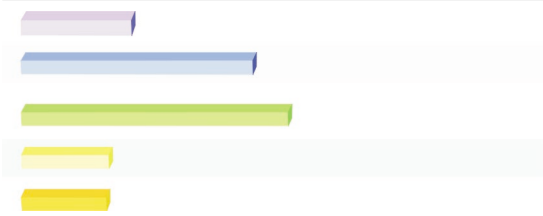
Dimensions (mm)

Dimensions (mm)

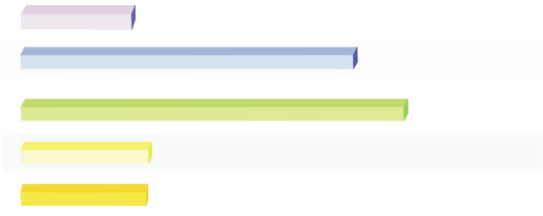
Model number	Length	Bundle	Sheath
PD-M6P172S-3	2000	2x ϕ 1.5	Polyethylene
Range (mm)			



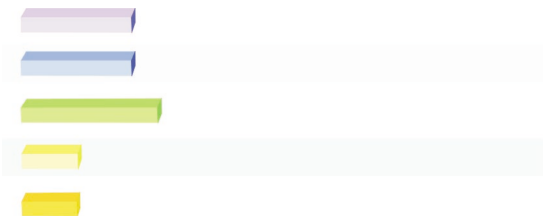
Model number	Length	Bundle	Sheath
PD-M6P142S-3c	2000	2x ϕ 1.0	Polyethylene
Range (mm)			



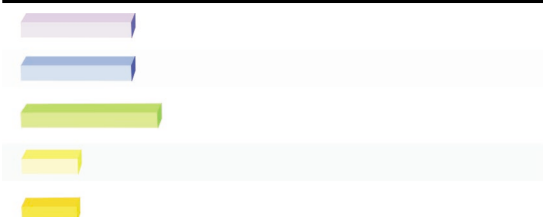
Model number	Length	Bundle	Sheath
Range (mm)			

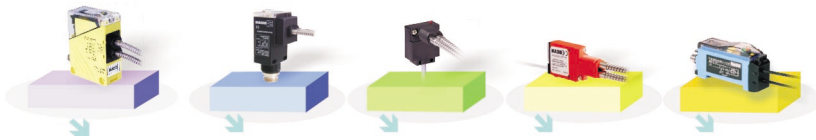


Model number	Length	Bundle	Sheath
Range (mm)			

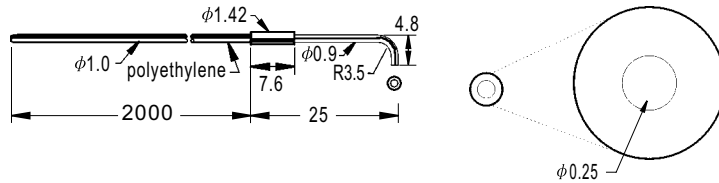


Model number	Length	Bundle	Sheath
	2000		
Range (mm)			

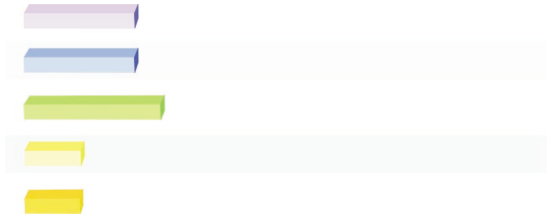




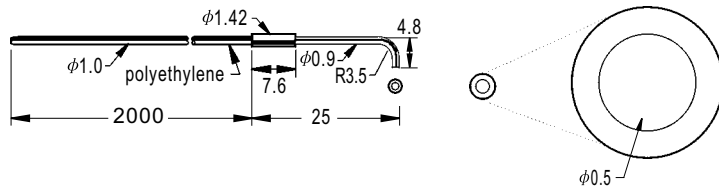
Dimensions (mm)



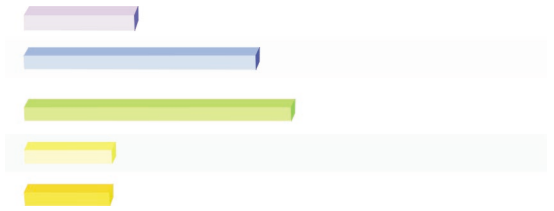
Model number	Length	Bundle	Sheath
PT-D0.9A062S	2000	$\phi 0.25$	Polyethylene
Range (mm)			



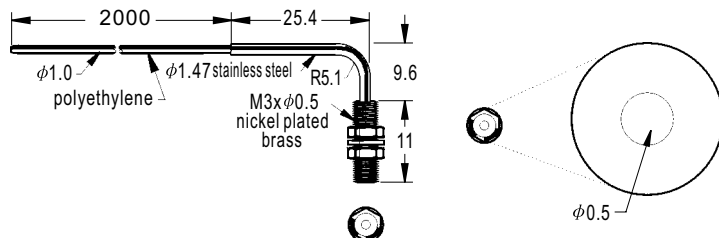
Dimensions (mm)



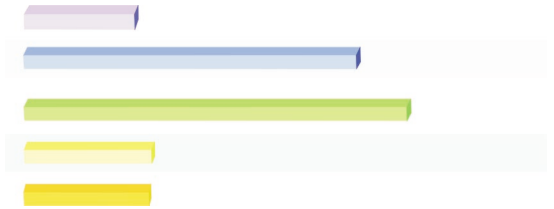
Model number	Length	Bundle	Sheath
PT-D0.9A042S	2000	$\phi 0.5$	Polyethylene
Range (mm)			



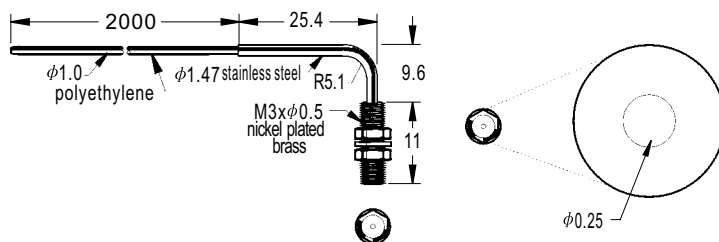
Dimensions (mm)



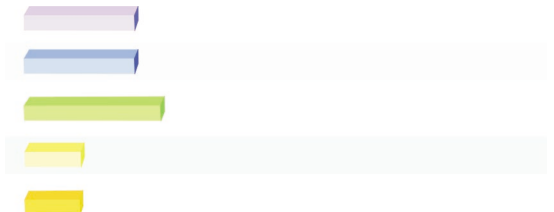
Model number	Length	Bundle	Sheath
PT-M3A042S	2000	$\phi 0.5$	Polyethylene
Range (mm)			



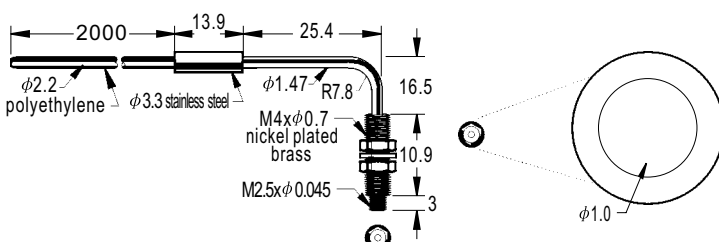
Dimensions (mm)



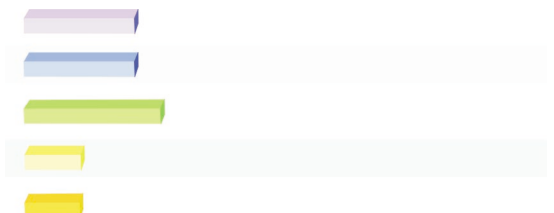
Model number	Length	Bundle	Sheath
PT-M3A062S	2000	$\phi 0.25$	Polyethylene
Range (mm)			



Dimensions (mm)

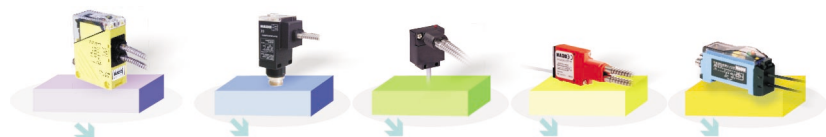


Model number	Length	Bundle	Sheath
PT-M2.5A012S-L	2000	$\phi 1.0$	Polyethylene
Range (mm)			

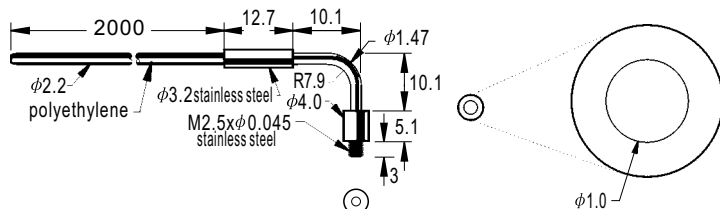


Opposed Mode

Individual Cables

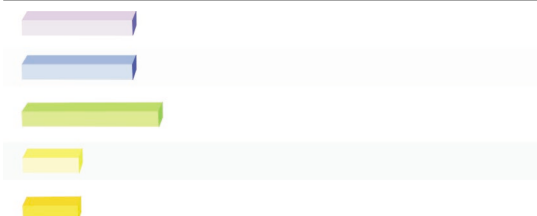


Dimensions (mm)

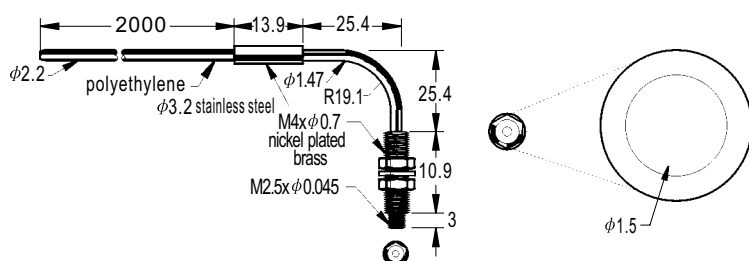


Model number	Length	Bundle	Sheath
PT-M2.5A012S	2000	φ1.0	Polyethylene

Range (mm)

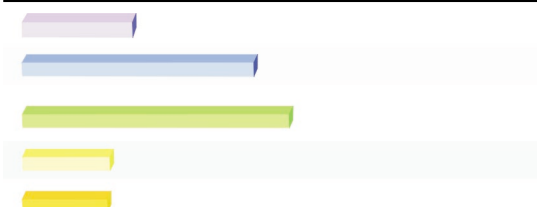


Dimensions (mm)

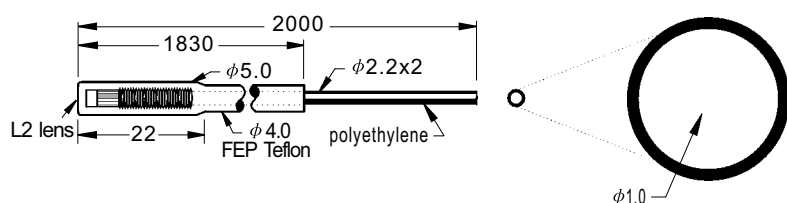


Model number	Length	Bundle	Sheath
PT-M2.5A052S-L	2000	φ1.5	Polyethylene

Range (mm)

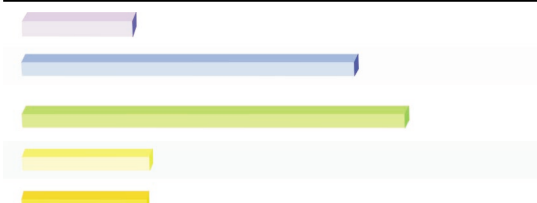


Dimensions (mm)

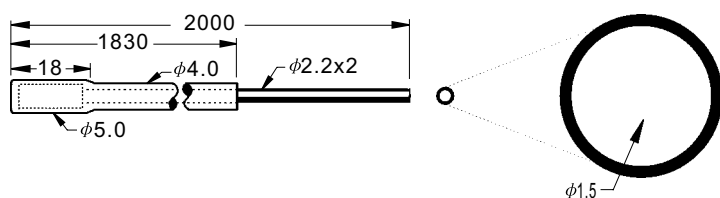


Model number	Length	Bundle	Sheath
PT-D5F492S	2000	L2 lens	Polyethylene

Range (mm)

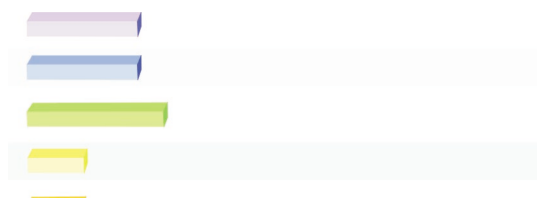


Dimensions (mm)

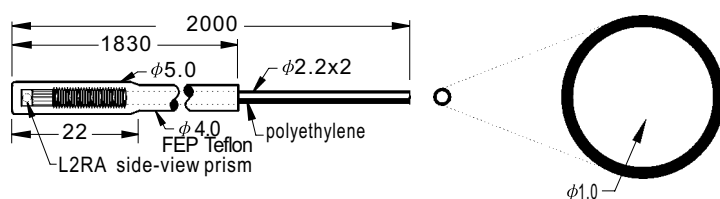


Model number	Length	Bundle	Sheath
PT-D5F2S-1	2000		Polyethylene

Range (mm)

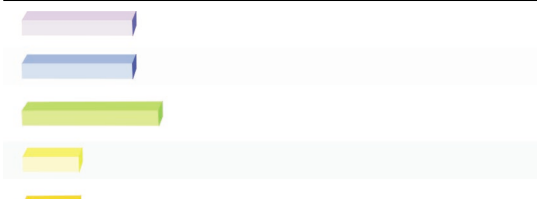


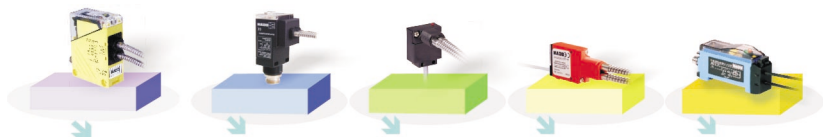
Dimensions (mm)



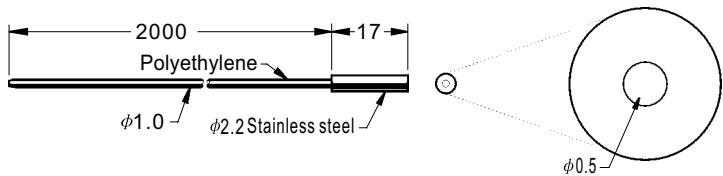
Model number	Length	Bundle	Sheath
PT-D5F502S	2000	L2RA	Polyethylene

Range (mm)

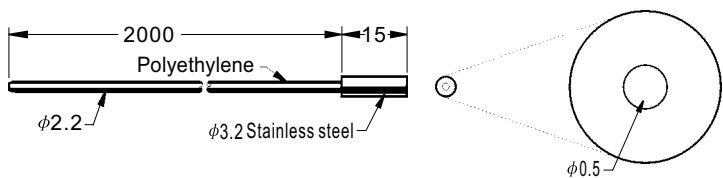




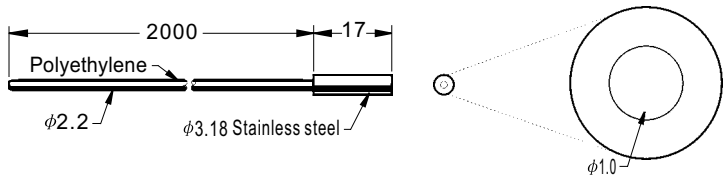
Dimensions (mm)



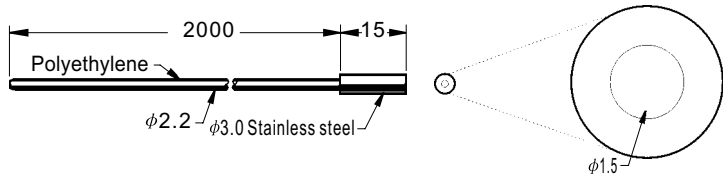
Dimensions (mm)



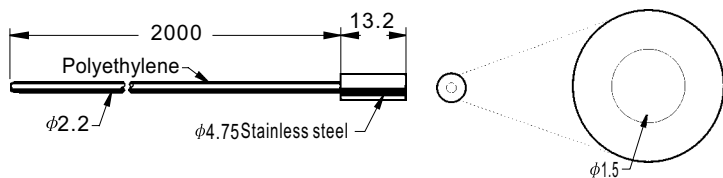
Dimensions (mm)



Dimensions (mm)



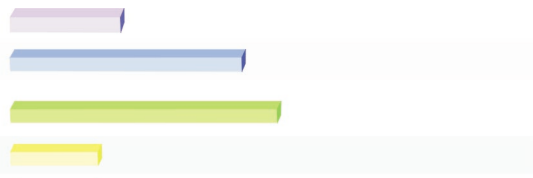
Dimensions (mm)



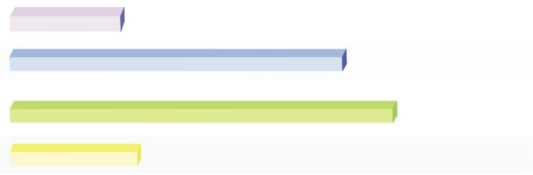
Model number	Length	Bundle	Sheath
PT-D2.2F042S	2000	ϕ 0.5	Polyethylene
Range (mm)			



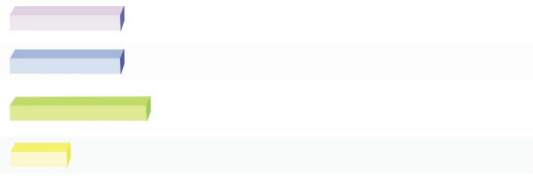
Model number	Length	Bundle	Sheath
PT-D3.2F042S	2000	ϕ 0.5	Polyethylene
Range (mm)			



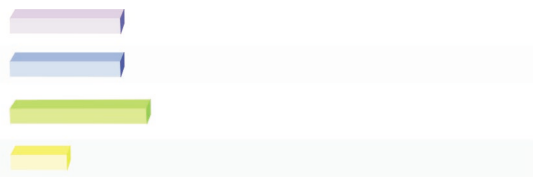
Model number	Length	Bundle	Sheath
PT-D3.18F012S	2000	ϕ 1.0	Polyethylene
Range (mm)			



Model number	Length	Bundle	Sheath
PT-D3F052S	2000	ϕ 1.5	Polyethylene
Range (mm)			

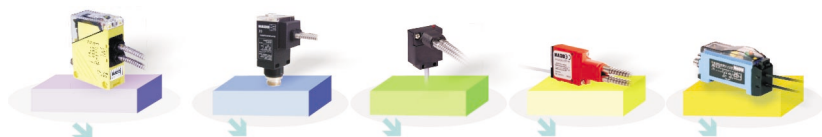


Model number	Length	Bundle	Sheath
PT-D4.75F052S	2000	ϕ 1.5	Polyethylene
Range (mm)			

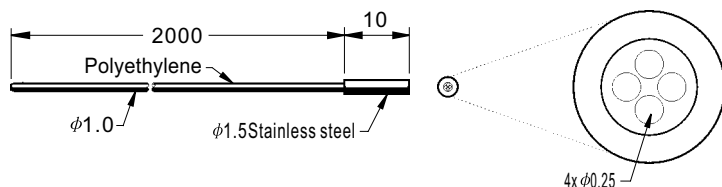


Opposed Mode Individual Cables

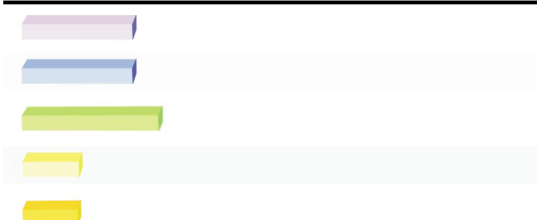
Plastic Fibers



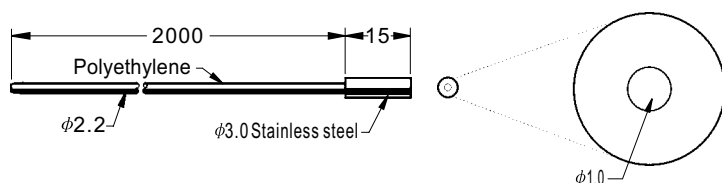
Dimensions (mm)



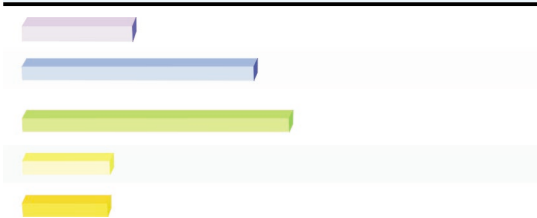
Model number	Length	Bundle	Sheath
PT-D1.5F202S	2000	4x $\phi 0.25$	Polyethylene
Range (mm)			



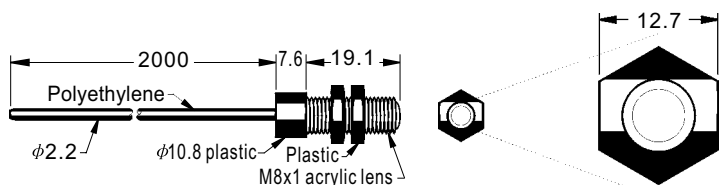
Dimensions (mm)



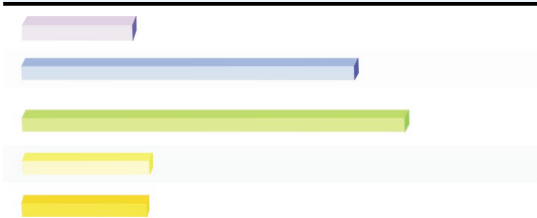
Model number	Length	Bundle	Sheath
PT-D3F012S	2000	$\phi 1.0$	Polyethylene
Range (mm)			



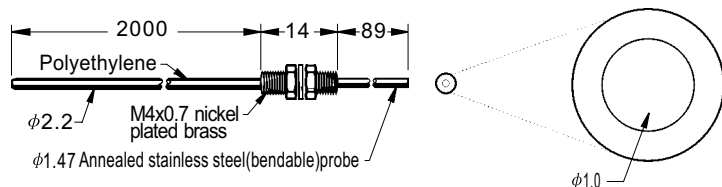
Dimensions (mm)



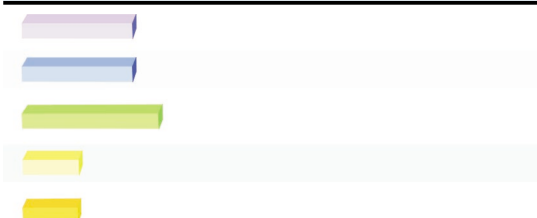
Model number	Length	Bundle	Sheath
PT-M8T482S	2000	1 acrylic lens	Polyethylene
Range (mm)			



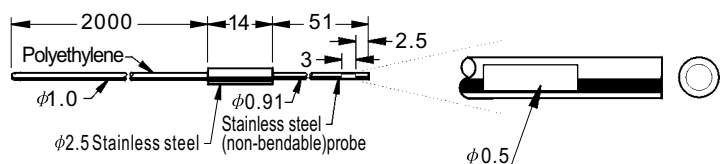
Dimensions (mm)



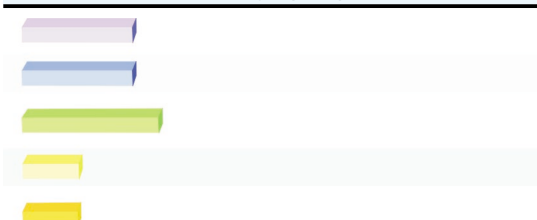
Model number	Length	Bundle	Sheath
PT-M4P012S-89	2000	$\phi 1.0$	Polyethylene
Range (mm)			

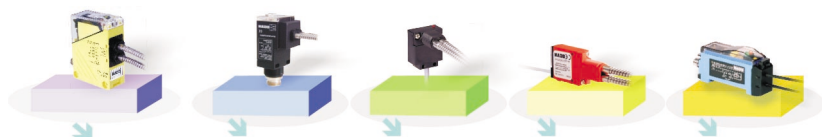


Dimensions (mm)

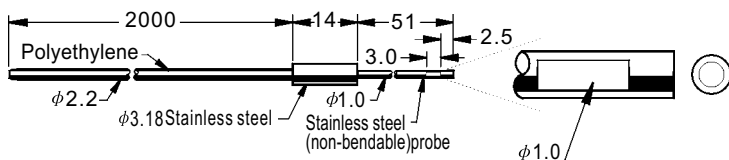


Model number	Length	Bundle	Sheath
PT-D2.5V042S	2000	$\phi 0.5$	Polyethylene
Range (mm)			

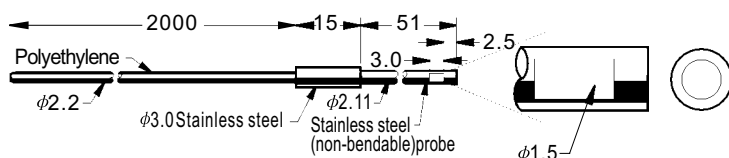




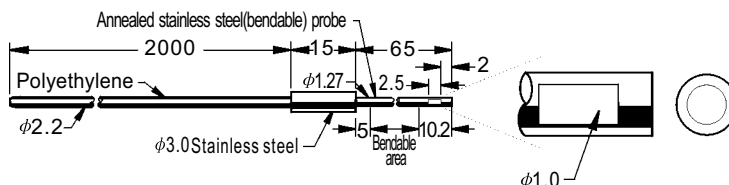
Dimensions (mm)



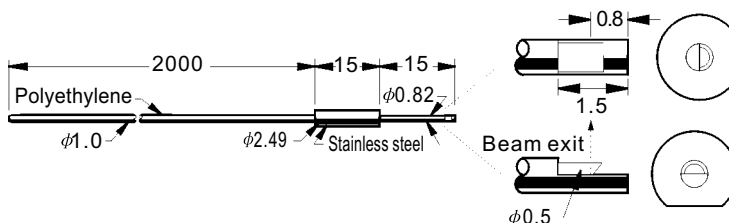
Dimensions (mm)



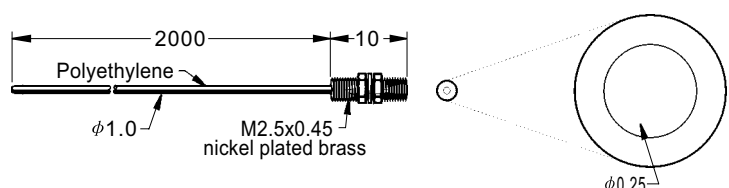
Dimensions (mm)



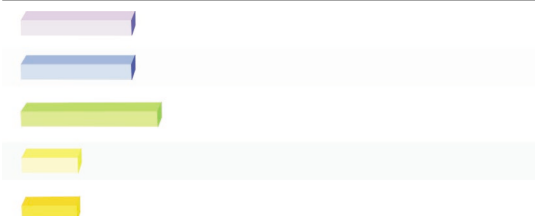
Dimensions (mm)



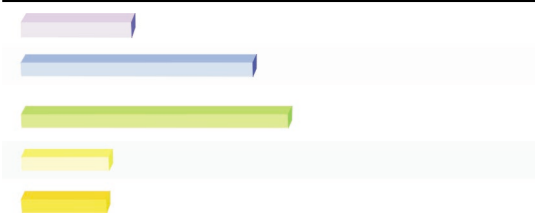
Dimensions (mm)



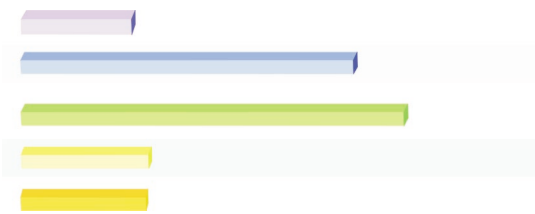
Model number	Length	Bundle	Sheath
PT-D3.18V012S	2000	φ1.0	Polyethylene
Range (mm)			



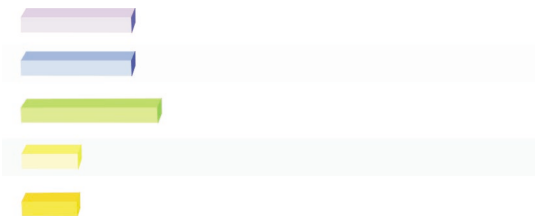
Model number	Length	Bundle	Sheath
PT-D3V052S	2000	φ1.5	Polyethylene
Range (mm)			



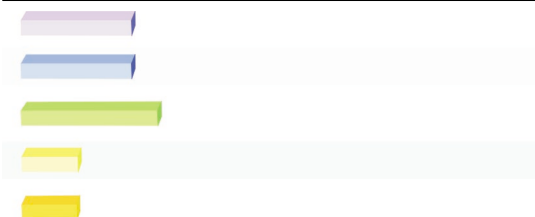
Model number	Length	Bundle	Sheath
PT-D3V012S	2000	φ1.0	Polyethylene
Range (mm)			



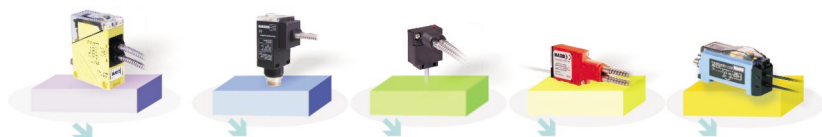
Model number	Length	Bundle	Sheath
PT-D2.49V042S	2000	φ0.5	Polyethylene
Range (mm)			



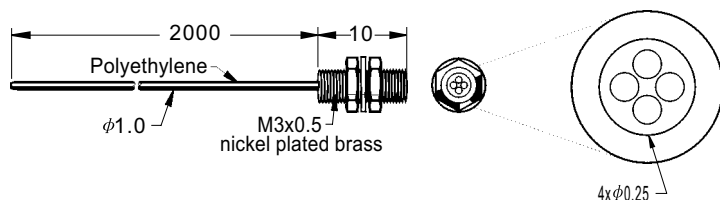
Model number	Length	Bundle	Sheath
PT-M2.5P062S	2000	φ0.25	Polyethylene
Range (mm)			



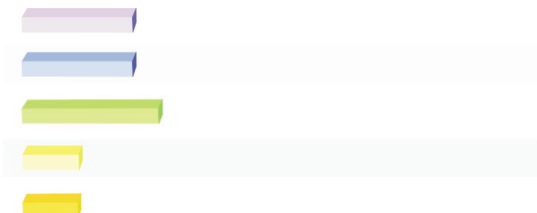
Individual Cables



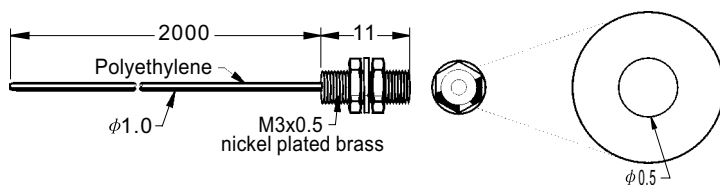
Dimensions (mm)



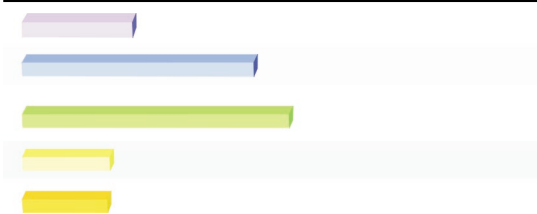
Model number	Length	Bundle	Sheath
PT-M3T202S	2000	4x ϕ 0.25	Polyethylene
Range (mm)			



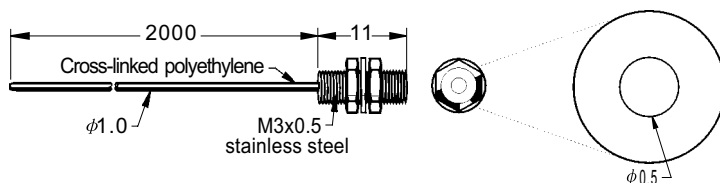
Dimensions (mm)



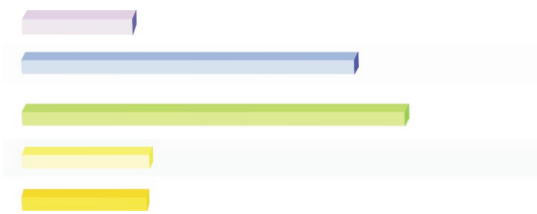
Model number	Length	Bundle	Sheath
PT-M3T042S	2000	ϕ 0.5	Polyethylene
Range (mm)			



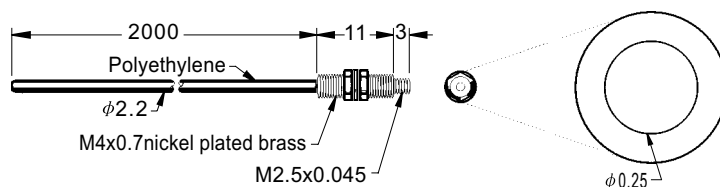
Dimensions (mm)



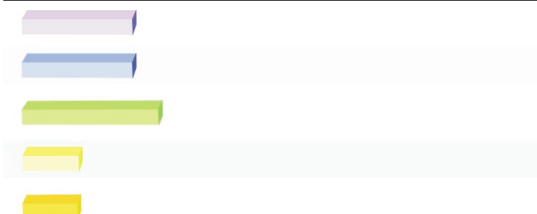
Model number	Length	Bundle	Sheath
PT-M3T042S-1	2000	ϕ 0.5	Polyethylene
Range (mm)			



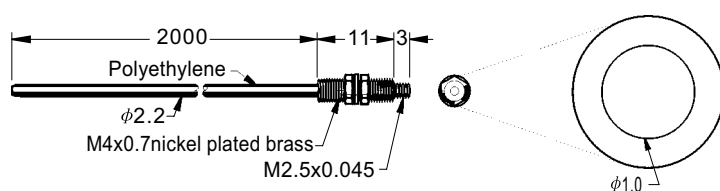
Dimensions (mm)



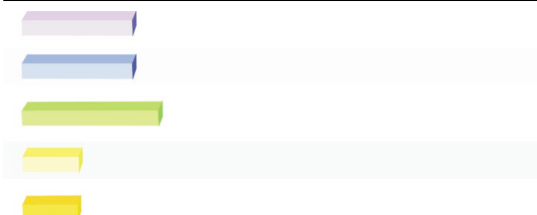
Model number	Length	Bundle	Sheath
PT-M4P062S-E	2000	ϕ 0.25	Polyethylene
Range (mm)			

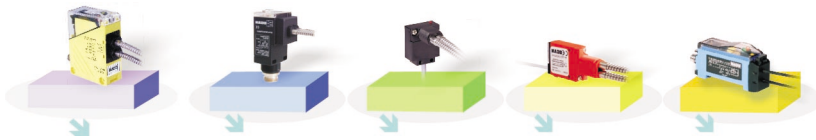


Dimensions (mm)

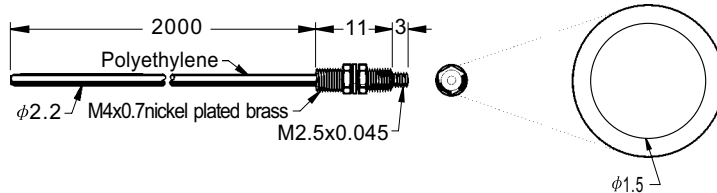


Model number	Length	Bundle	Sheath
PT-M4P012S-E	2000	ϕ 1.0	Polyethylene
Range (mm)			

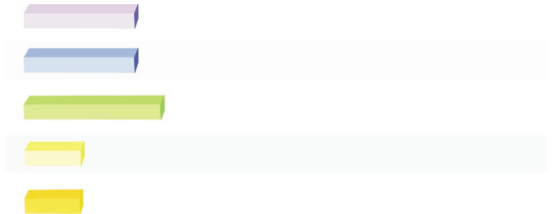




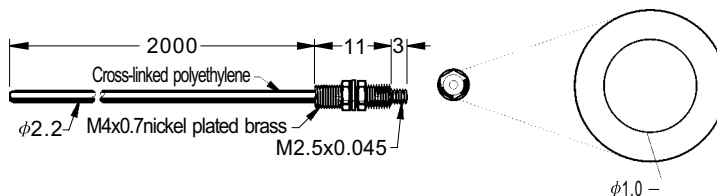
Dimensions (mm)



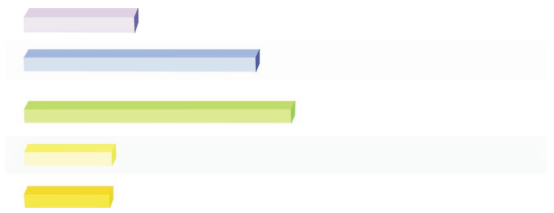
Model number	Length	Bundle	Sheath
PT-M4P052S	2000	$\phi 1.5$	Polyethylene
Range (mm)			



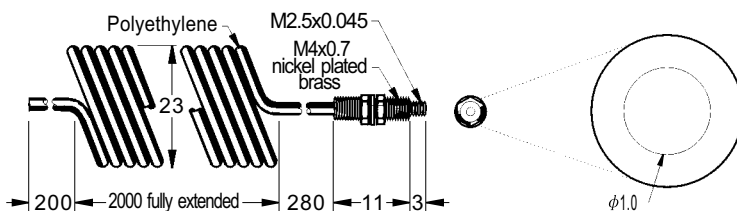
Dimensions (mm)



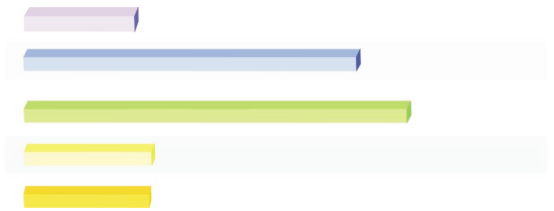
Model number	Length	Bundle	Sheath
PT-M4P012S	2000	$\phi 1.0$	Polyethylene
Range (mm)			



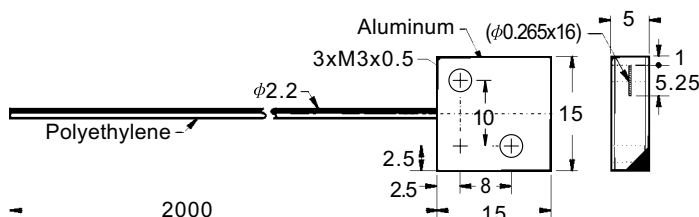
Dimensions (mm)



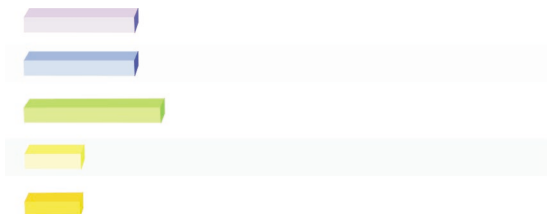
Model number	Length	Bundle	Sheath
PT-M2.5P012S	2000	$\phi 1.0$	Polyethylene
Range (mm)			



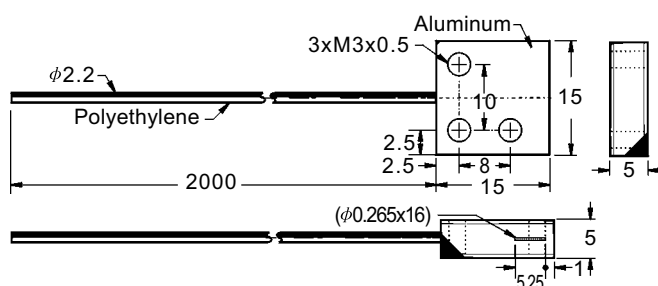
Dimensions (mm)



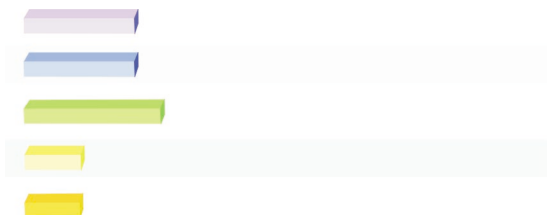
Model number	Length	Bundle	Sheath
PT-DC642S	2000	16 x $\phi 0.265$	Polyethylene
Range (mm)			



Dimensions (mm)

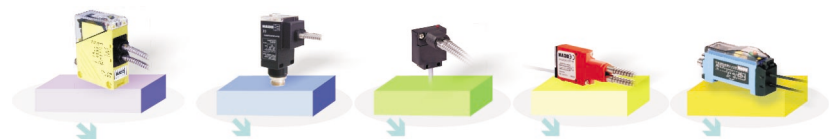


Model number	Length	Bundle	Sheath
PT-DB642S	2000	16 x $\phi 0.265$	Polyethylene
Range (mm)			

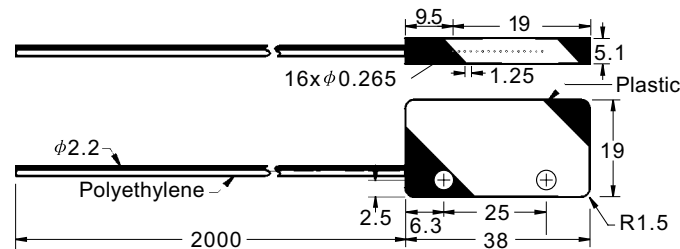


Opposed Mode
Individual Cables

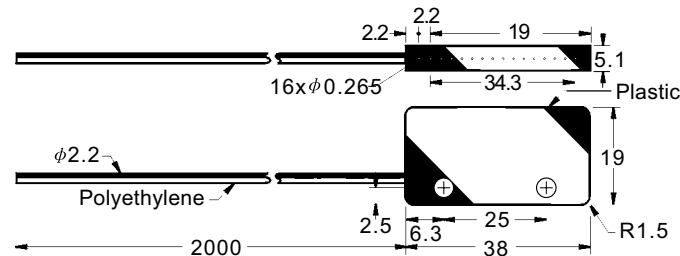
Plastic Fibers



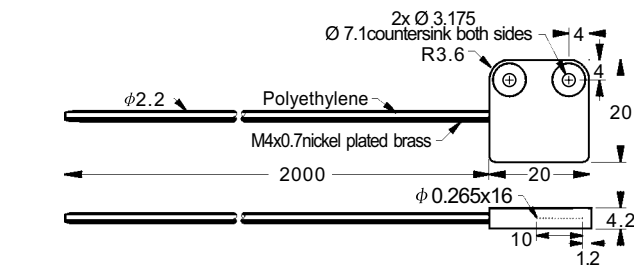
Dimensions (mm)



Dimensions (mm)



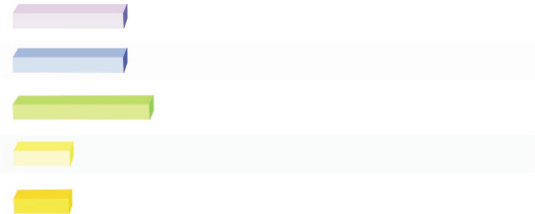
Dimensions (mm)



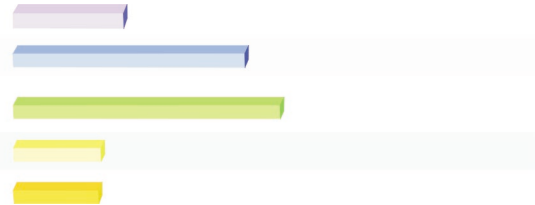
Dimensions (mm)

Dimensions (mm)

Model number	Length	Bundle	Sheath
PT-DX192S	2000	16xφ0.265	Polyethylene
Range (mm)			



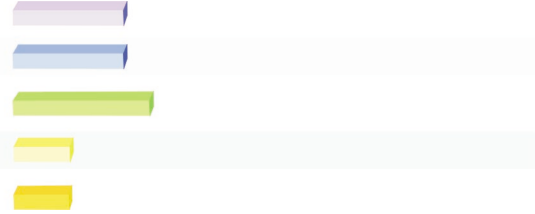
Model number	Length	Bundle	Sheath
PT-DX192S-1	2000	16xφ0.265	Polyethylene
Range (mm)			



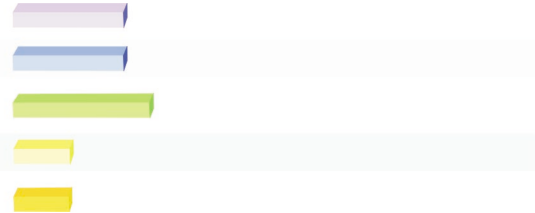
Model number	Length	Bundle	Sheath
PT-DX522S	2000	16xφ0.265	Polyethylene
Range (mm)			

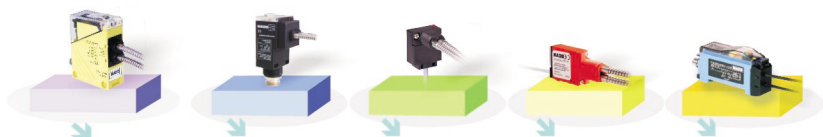


Model number	Length	Bundle	Sheath
Range (mm)			

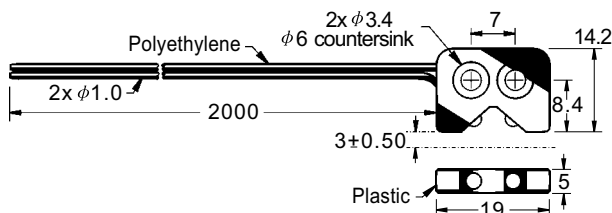


Model number	Length	Bundle	Sheath
Range (mm)			

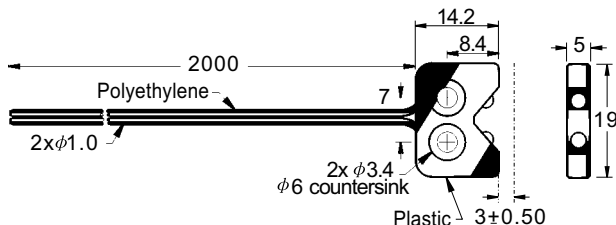




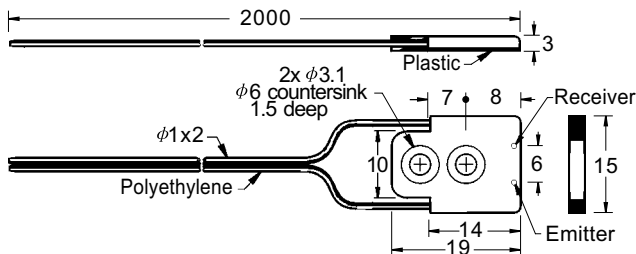
Dimensions (mm)



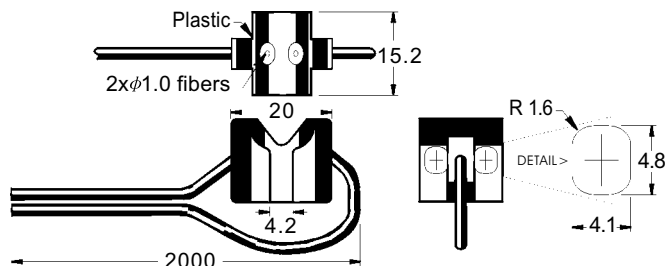
Dimensions (mm)



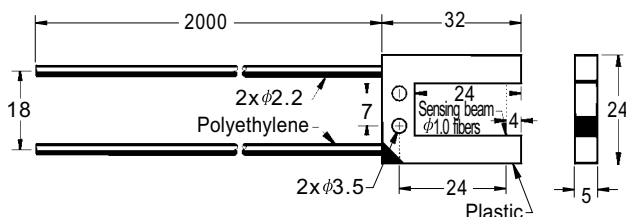
Dimensions (mm)



Dimensions (mm)

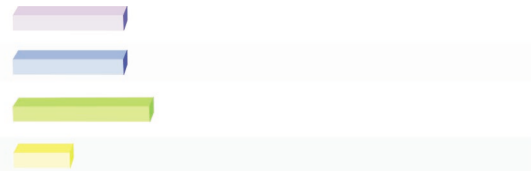


Dimensions (mm)



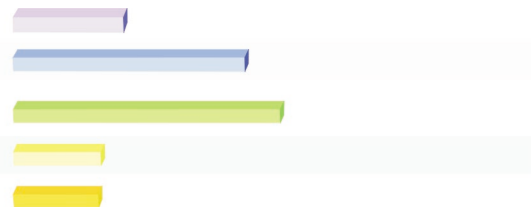
Model number	Length	Bundle	Sheath
PD-DJ542S	2000		Polyethylene

Range (mm)



Model number	Length	Bundle	Sheath
PD-DK542S	2000		Polyethylene

Range (mm)



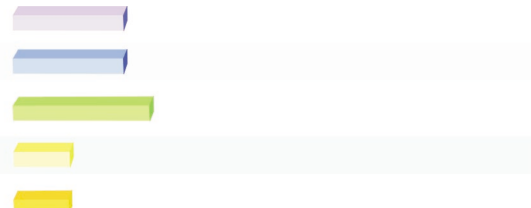
Model number	Length	Bundle	Sheath
PD-DE702S	2000		Polyethylene

Range (mm)



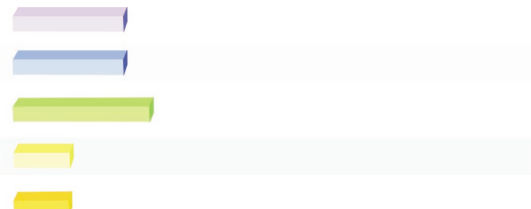
Model number	Length	Bundle	Sheath
PT-DCO142S	2000	2x ϕ1.0	Polyethylene

Range (mm)



Model number	Length	Bundle	Sheath
PT-DS012S	2000	2x ϕ1.0	Polyethylene

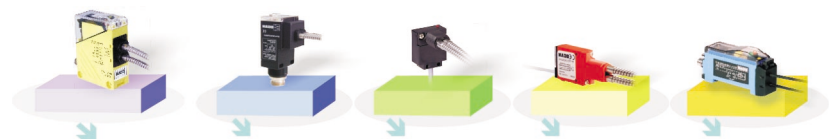
Range (mm)



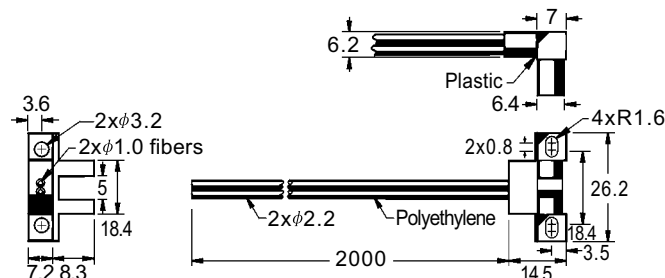
Opposed Mode

Specialty Fibers

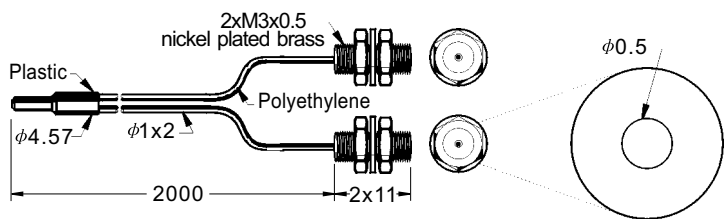
Individual Cables



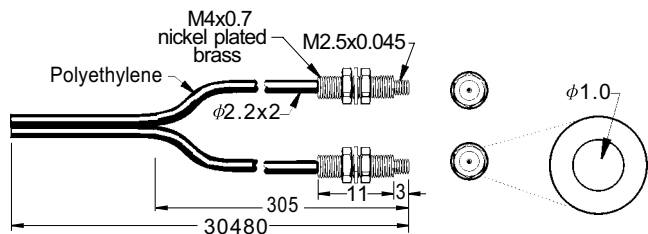
Dimensions (mm)



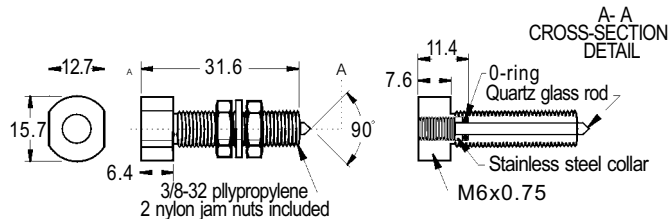
Dimensions (mm)



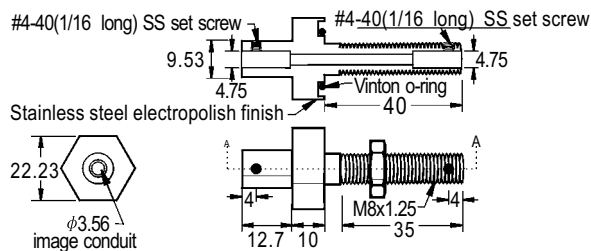
Dimensions (mm)



Dimensions (mm)



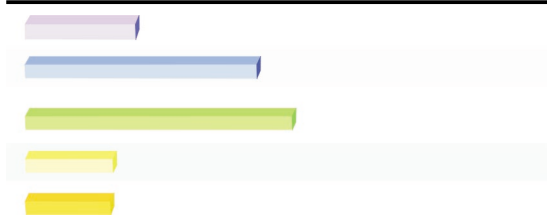
Dimensions (mm)



Model number	Length	Bundle	Sheath
PD-DQ582S	2000		Polyethylene
Range (mm)			



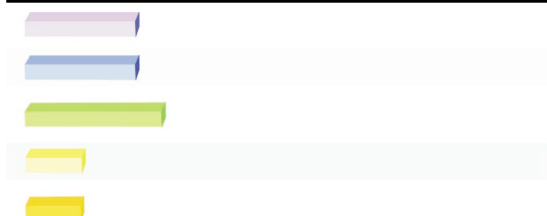
Model number	Length	Bundle	Sheath
PT-M3T042S	2000	φ0.5	Polyethylene
Range (mm)			



Model number	Length	Bundle	Sheath
PT-M4P012S-E	2000	φ1.0	Polyethylene
Range (mm)			



Model number	Length	Bundle	Sheath
PT-M3/8T	2000		
Range (mm)			



Model number	Length	Bundle	Sheath
PT-M8P	2000		
Range (mm)			

