Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

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the innovative family

1 First you have to choose the required range. If you cannot find a suitable range, please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length			
1,0 m	0,75 m	0,5 m	0,25 m
12 mm	14 mm	16 mm	20 mm
6 mm	7 mm	8 mm	10 mm
3 mm	3 mm	4 mm	5 mm

Tw = Range

1 Sensor Type

U_ 88 __
U_ 66 __
U_ 55 __

Jacket

PVC
Bending radius: 21 mm
Temperature Range: –25 °C...80 °C
Ø 2,1 — **1**

Brass Nickel-Plated
Bending radius: 45 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **2**

Stainless Steel
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **3**

Metal/Silicone
Bending radius: 35 mm
Temperature Range: –25 °C...180 °C
Ø 5,2 — **4**

2 Endpot

M4, 20, 15, Ø 6 — Aluminium — **5 4** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M4, 20 — Aluminium — **5 4** — Only with PVC jacket

Ø 1,5, 5, 15, Ø 6 — Stainless Steel — **0 3**

Ø 1,5, 5, 15, Ø 3 — Stainless Steel — **0 1** — Only with PVC jacket

1,25, E, Ø 1,5, 20, Ø 6 — Aluminium — **3 5**

Object — Tw — Sensor — Type — L

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __

4

0 1 = 0,25 m
0 2 = 0,5 m
0 3 = 0,75 m
0 4 = 1,0 m

The lengths are staggered in 0,25 m steps.

Order number 0 5 1 ? ? ? ? ? ?

Fiber bundle Ø 0,5 mm

Reflex mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

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1 First you have to choose the required range. If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length			
1,0 m	0,75 m	0,5 m	0,25 m
32 mm	36 mm	40 mm	50 mm
16 mm	18 mm	20 mm	25 mm
8 mm	9 mm	10 mm	12 mm
30 mm	33 mm	36 mm	40 mm

Tw = Range

1 Sensor Type

- U_ 88 __
- U_ 66 __
- U_ 55 __
- ODX

Jacket

PVC
Bending radius: 21 mm
Temperature Range: –25 °C...80 °C
Ø 2,1 — **1**

Brass Nickel-Plated
Bending radius: 45 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **2**

Stainless Steel
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **3**

Metal/Silicone
Bending radius: 35 mm
Temperature Range: –25 °C...180 °C
Ø 5,2 — **4**

2 Endpot

M4, 20, 15, Ø 6 — Aluminium — **5 4** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M4, 20 — Aluminium — **5 4** — Only with PVC jacket

Ø 2,5, 10, 15, Ø 3,5 — Stainless Steel — **0 6** — Only with PVC jacket

Ø 2,5, 10, 15, Ø 7 — Stainless Steel — **0 7**

2,5, E, Ø 3, 15, Ø 7 — Aluminium — **3 2**

Object — Tw — Sensor — Type — L

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __
3	ODX __

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m

The lengths are staggered in 0,25 m steps.

Order number 0 8 1 ? ? ? ? ? ?

Fiber bundle Ø 0,8 mm

Reflex mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

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2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length			
1,0 m	0,75 m	0,5 m	0,25 m
72 mm	76 mm	80 mm	100 mm
36 mm	38 mm	40 mm	50 mm
18 mm	19 mm	20 mm	25 mm
100 mm	103 mm	106 mm	110 mm

Tw = Range

1 Sensor Type

- U_ 88 __
- U_ 66 __
- U_ 55 __
- ODX

Jacket

PVC
Bending radius: 29 mm
Temperature Range: –25 °C...80 °C
Ø 2,9 — **1**

Brass Nickel-Plated
Bending radius: 45 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **2**

Stainless Steel
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **3**

Metal/Silicone
Bending radius: 35 mm
Temperature Range: –25 °C...180 °C
Ø 5,2 — **4**

2 Endpot

M5, 30, 20, Ø 7 — Aluminium — **5 5** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M5, 30 — Aluminium — **5 5** — Only with PVC jacket

Ø 2,5, 10, 15, Ø 3,5 — Stainless Steel — **0 6** — Only with PVC jacket

Ø 2,5, 10, 15, Ø 7 — Stainless Steel — **0 7**

2,5, E, Ø 3, 15, Ø 7 — Aluminium — **3 2**

Object — Tw — Sensor — Type — L

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __
3	ODX __

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m
- **0 8** = 2,0 m

The lengths are staggered in 0,25 m steps.

Order number 1 1 1 ? ? ? ? ? ?

Fiber bundle Ø 1,1 mm

Reflex mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

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1 First you have to choose the required range. If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length				
2,0 m	1,5 m	1,0 m	0,5 m	0,25 m
195 mm	215 mm	240 mm	270 mm	300 mm
130 mm	145 mm	160 mm	180 mm	200 mm
65 mm	72 mm	80 mm	90 mm	100 mm
32 mm	36 mm	40 mm	45 mm	50 mm
140 mm	150 mm	160 mm	170 mm	180 mm

Tw = Range

1 Sensor Type

- U_ 87 __
- U_ 88 __
- U_ 66 __
- U_ 55 __
- ODX

Jacket

PVC
Bending radius: 40 mm
Temperature Range: –25 °C...80 °C
Ø 4,0 — **1**

Brass Nickel-Plated
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 5,9 — **2**

Stainless Steel
Bending radius: 60 mm
Temperature Range: –25 °C...250 °C*
Ø 5,9 — **3**

Metal/Silicone
Bending radius: 45 mm
Temperature Range: –25 °C...180 °C
Ø 6,6 — **4**

2 Endpot

M6, 30, 20, Ø 8 — Aluminium **5 6** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M6, 30 — Aluminium **5 6** — Only with PVC jacket

Ø 5, 10, 15, Ø 8 — Stainless Steel **1 5**

Ø 3,5, 10, 15, Ø 5 — Stainless Steel **1 0** — Only with PVC jacket

3,5, E, Ø 5, 20, Ø 8 — Aluminium **3 8**

Object — Tw — Sensor — Type — L

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __
3	ODX __

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m
- **1 6** = 4,0 m

The lengths are staggered in 0,25 m steps.

Order number 1 6 1 ? ? ? ? ? ?

Fiber bundle Ø 1,6 mm

Reflex mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

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1 First you have to choose the required range. If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length				
4,0 m	3,0 m	2,0 m	1,0 m	0,5 m
330 mm	360 mm	390 mm	450 mm	510 mm
220 mm	240 mm	260 mm	300 mm	340 mm
110 mm	120 mm	130 mm	150 mm	170 mm
55 mm	60 mm	65 mm	75 mm	85 mm

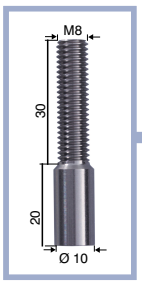
1 Sensor Type

U_ 87 __
U_ 88 __
U_ 66 __
U_ 55 __

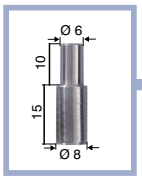
Tw = Range

Jacket

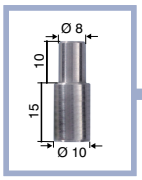
2 Endpot



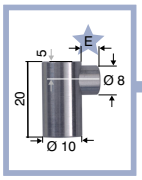
Stainless Steel **5 1**



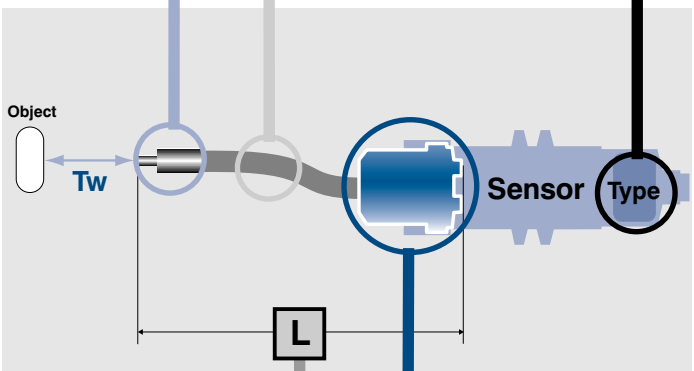
Stainless Steel **1 8**



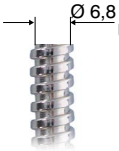
Stainless Steel **2 1**



Stainless Steel **3 7**

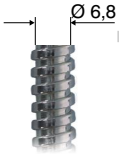


Brass Nickel-Plated
Bending radius: 60 mm
Temperature Range: –25 °C...250 °C*



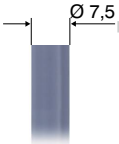
2

Stainless Steel
Bending radius: 70 mm
Temperature Range: –25 °C...250 °C*



3

Metal/Silicone
Bending radius: 50 mm
Temperature Range: –25 °C...180 °C



4

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __

4

0 1	= 0,25 m
0 2	= 0,5 m
0 3	= 0,75 m
0 4	= 1,0 m
1 6	= 4,0 m

The lengths are staggered in 0,25 m steps.

Order number 2 3 1 ? ? ? ? ? ?

Fiber bundle Ø 2,3 mm

Reflex mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

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1 First you have to choose the required range. If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length				
4,0 m	3,0 m	2,0 m	1,0 m	0,5 m
600 mm	660 mm	720 mm	810 mm	1000 mm
400 mm	440 mm	480 mm	540 mm	670 mm
200 mm	220 mm	240 mm	270 mm	335 mm
100 mm	110 mm	120 mm	135 mm	165 mm

Tw = Range

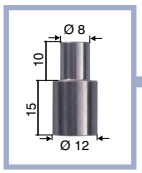
1 Sensor Type

- U_ 87 __
- U_ 88 __
- U_ 66 __
- U_ 55 __

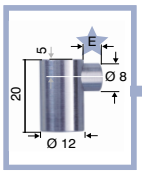
Jacket

2 Endpot

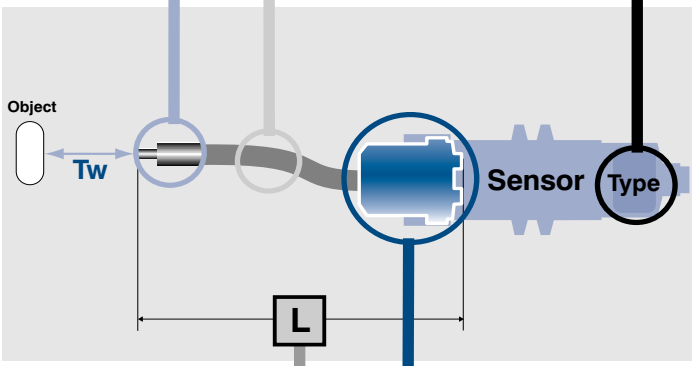
Stainless Steel **5 1**



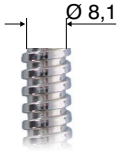
Stainless Steel **2 3**



Aluminium **3 9**

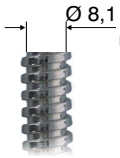


Brass Nickel-Plated
Bending radius: 70 mm
Temperature Range: –25 °C...250 °C*



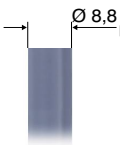
2

Stainless Steel
Bending radius: 80 mm
Temperature Range: –25 °C...250 °C*



3

Metal - Silicone
Bending radius: 60 mm
Temperature Range: –25 °C...180 °C



4

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m

The lengths are staggered in 0,25 m steps.

- **1 6** = 4,0 m

Order number 3 0 1 ? ? ? ? ? ?

Fiber bundle Ø 3,0 mm

Reflex mode

E= 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

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2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length			
2,0 m	1,5 m	1,0 m	0,5 m
180 mm	210 mm	240 mm	270 mm
120 mm	140 mm	160 mm	180 mm
60 mm	70 mm	80 mm	90 mm
30 mm	35 mm	40 mm	45 mm
120 mm	123 mm	126 mm	130 mm

Rw = Range

1 Sensor Type

- U_ 87 __
- U_ 88 __
- U_ 66 __
- U_ 55 __
- ODX

Jacket

PVC
Bending radius: 21 mm
Temperature Range: –25 °C...80 °C
Ø 2,1 — **1**

Brass Nickel-Plated
Bending radius: 45 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **2**

Stainless Steel
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **3**

Metal/Silicone
Bending radius: 35 mm
Temperature Range: –25 °C...180 °C
Ø 5,2 — **4**

2 Endpot

M4, 20, 15, Ø 6 — Aluminium — **5 4** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M4, 20 — Aluminium — **5 4** — Only with PVC jacket

Ø 1,5, 5, 15, Ø 6 — Stainless Steel — **0 3**

Ø 1,5, 5, 15, Ø 3 — Stainless Steel — **0 1** — Only with PVC jacket

1,25, E, Ø 1,5, 20, Ø 6 — Aluminium — **3 5**

Rw

Sensor Type

L

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __
3	ODX __

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m
- **0 8** = 2,0 m

The lengths are staggered in 0,25 m steps.

Order number 0 8 3 ? ? ? ? ? ?

Fiber bundle Ø 0,8 mm

Through beam mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

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2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length			
2,0 m	1,5 m	1,0 m	0,5 m
480 mm	510 mm	540 mm	600 mm
320 mm	340 mm	360 mm	400 mm
160 mm	170 mm	180 mm	200 mm
80 mm	85 mm	90 mm	100 mm
360 mm	370 mm	380 mm	400 mm

Rw = Range

1 Sensor Type

- U_ 87 __
- U_ 88 __
- U_ 66 __
- U_ 55 __
- ODX

Jacket

PVC
Bending radius: 23 mm
Temperature Range: –25 °C...80 °C
Ø 2,3 — **1**

Brass Nickel-Plated
Bending radius: 45 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **2**

Stainless Steel
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **3**

Metal/Silicone
Bending radius: 35 mm
Temperature Range: –25 °C...180 °C
Ø 5,2 — **4**

2 Endpot

M4, 20, 15, Ø 6 — Aluminium — **5 4** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M4, 20 — Aluminium — **5 4** — Only with PVC jacket

Ø 2,5, 10, 15, Ø 3,5 — Stainless Steel — **0 6** — Only with PVC jacket

Ø 2,5, 10, 15, Ø 7 — Stainless Steel — **0 7**

2,5, E, Ø 3, 15, Ø 7 — Aluminium — **3 2**

Rw

Sensor Type

L

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __
3	ODX __

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m
- **0 8** = 2,0 m

The lengths are staggered in 0,25 m steps.

Order number 1 1 3 ? ? ? ? ? ?

Fiber bundle Ø 1,1 mm

Through beam mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

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1 First you have to choose the required range. If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length			
2,0 m	1,5 m	1,0 m	0,5 m
1020 mm	1140 mm	1260 mm	800 mm
680 mm	760 mm	840 mm	800 mm
340 mm	380 mm	420 mm	460 mm
170 mm	190 mm	210 mm	230 mm
450 mm	460 mm	480 mm	500 mm

Rw = Range

1 Sensor Type

- U_ 87 __
- U_ 88 __
- U_ 66 __
- U_ 55 __
- ODX

Jacket

PVC
Bending radius: 29 mm
Temperature Range: –25 °C...80 °C
Ø 2,3 — **1**

Brass Nickel-Plated
Bending radius: 45 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **2**

Stainless Steel
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 4,9 — **3**

Metal/Silicone
Bending radius: 35 mm
Temperature Range: –25 °C...180 °C
Ø 5,2 — **4**

2 Endpot

M5, 30, 20, Ø 7 — Aluminium — **5 5** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M5, 30 — Aluminium — **5 5** — Only with PVC jacket

Ø 5, 10, 15, Ø 8 — Stainless Steel — **1 5**

Ø 2,5, 10, 15, Ø 3,5 — Stainless Steel — **0 6** — Only with PVC jacket

3,5, E, Ø 5, 20, Ø 8 — Aluminium — **3 8**

Rw

L

Sensor Type

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __
3	ODX __

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m
- **0 8** = 2,0 m

The lengths are staggered in 0,25 m steps.

Order number 1 6 3 ? ? ? ? ? ?

Fiber bundle Ø 1,6 mm

Through beam mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

wenglor
the innovative family

1 First you have to choose the required range. If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length				
5,0 m	4,0 m	3,0 m	2,0 m	1,0 m
2100 mm	2340 mm	2580 mm	2820 mm	1800 mm
1400 mm	1560 mm	1720 mm	1880 mm	1800 mm
700 mm	780 mm	860 mm	940 mm	1000 mm
350 mm	390 mm	430 mm	470 mm	500 mm

1 Sensor Type

- U_ 87 __
- U_ 88 __
- U_ 66 __
- U_ 55 __

Rw = Range

Jacket

1 PVC
Bending radius: 40 mm
Temperature Range: –25 °C...80 °C
Ø 4,0

2 Brass Nickel-Plated
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*
Ø 5,9

3 Stainless Steel
Bending radius: 60 mm
Temperature Range: –25 °C...250 °C*
Ø 5,9

4 Metal/Silicone
Bending radius: 50 mm
Temperature Range: –25 °C...180 °C
Ø 7,5

2 Endpot

M6, 30, 20, Ø 8 — Aluminium — **5 6** — Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket

M6, 30 — Stainless Steel — **5 6** — Only with PVC jacket

Ø 8, 10, 15, Ø 10 — Stainless Steel — **2 1**

Ø 3,5, 10, 15, Ø 5 — Aluminium — **1 0** — Only with PVC jacket

E, 5, 20, Ø 8, Ø 10 — Stainless Steel — **3 7**

Rw

Sensor Type

L

3

Adapter	Sensor Type
1	UF __
5 6	US __
2 5 6	UV __
1	UG __
2	UC __
2	UM __

2 Not with Metal/Silicone
5 Only with PVC jacket

4

- **0 1** = 0,25 m
- **0 2** = 0,5 m
- **0 3** = 0,75 m
- **0 4** = 1,0 m
- **1 6** = 4,0 m

The lengths are staggered in 0,25 m steps.

Order number 2 3 3 ? ? ? ? ? ?

Fiber bundle Ø 2,3 mm

Through beam mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**

Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

wenglor
the innovative family

1 First you have to choose the required range. If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.

2 Choose the jacket and the endpot.

3 Choose the right adapter for your wenglor sensor.

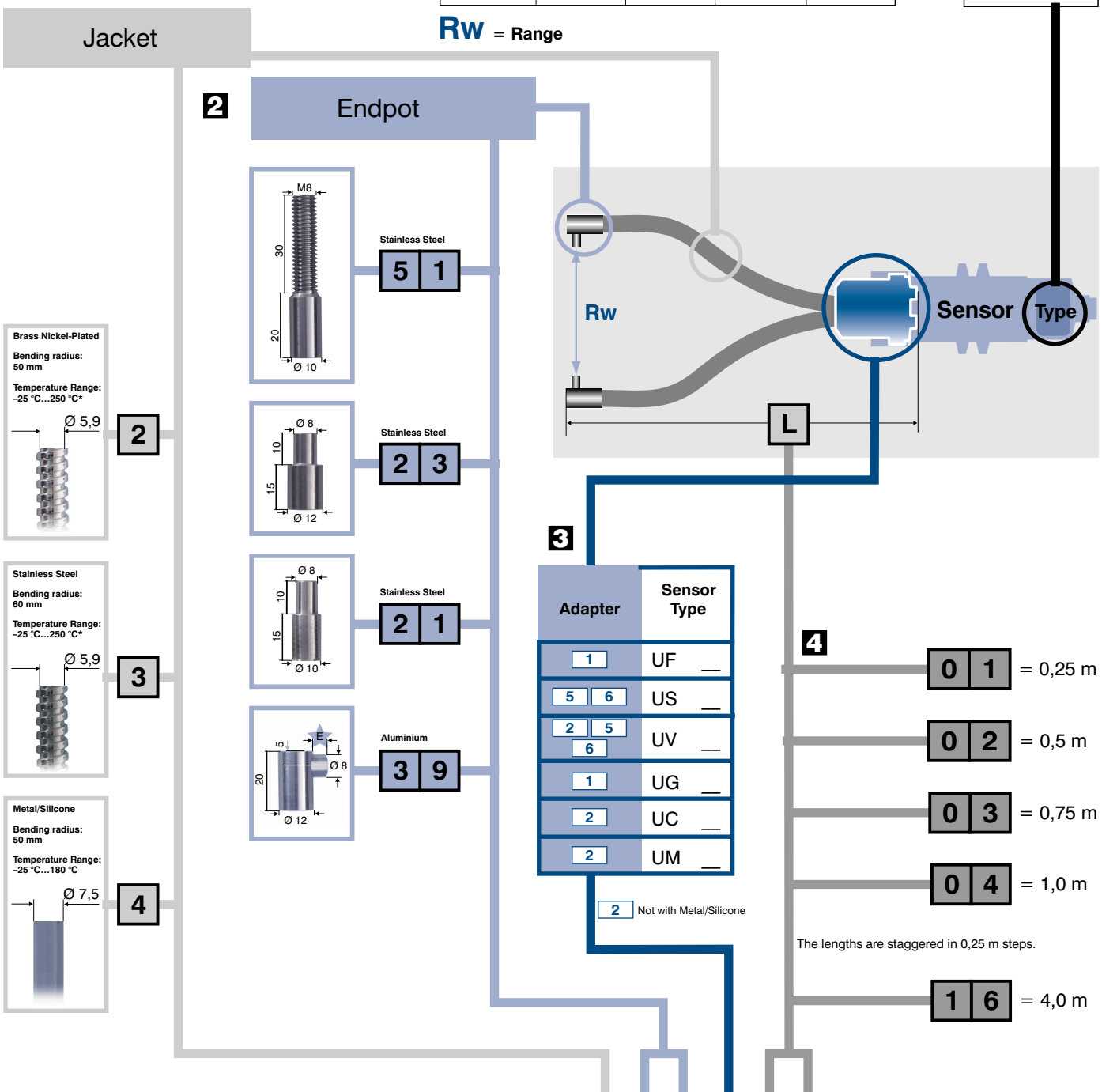
4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length				
5,0 m	4,0 m	3,0 m	2,0 m	1,0 m
3600 mm	4080 mm	4500 mm	3800 mm	1800 mm
2400 mm	2720 mm	3000 mm	3200 mm	1800 mm
1200 mm	1360 mm	1500 mm	1600 mm	1700 mm
600 mm	680 mm	750 mm	800 mm	850 mm

1 Sensor Type

U_ 87 __
U_ 88 __
U_ 66 __
U_ 55 __

Rw = Range



Order number 3 0 3 ? ? ? ? ? ?

Fiber bundle Ø 3,0 mm

Through beam mode

E = 4 mm Standard
please specify other lengths

*** Fibers heat resistant up to 180 °C, up to 250 °C only with order number addition "T"!**