Glass Fiber Optic Cable

Through Beam Mode

233-221-104

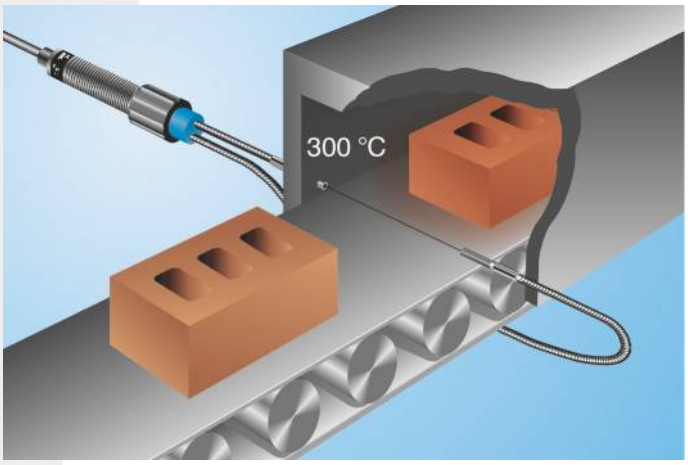
Part Number

- **A broad range of applications are possible due to the modular system design**
- **Stock types deliverable at short notice**

Technical Data

Optical Data	
Fiber Bundle Diameter	2,3 mm
Range with Sensor Type U_87__	1800 mm
Range with Sensor Type U_88__	1800 mm
Range with Sensor Type U_66__	1000 mm
Range with Sensor Type U_55__	500 mm
Opening Angle	68 °
Fiber	Stepped Index
Fiber Diameter	50 µm
Mechanical Data	
Temperature Range	-25...180 °C
Bending Radius	50 mm
Fiber Optic Length	1 m
Material Jacket	CuZn, nickel-plated
Material Endpot	Stainless Steel
Endpot No.	21
Light Emission	straight
Fiber Optic Cable Adapter No.	1
Suiting Mounting Technology No.	190

Glass Fiber Optic Cables are very flexible and can be used in applications with less space. Especially in applications with hot environment the metal casing Fiber Optic Cables are the answer.



Fiber Optic Cable Combination

Choose your individual Glass Fiber Optic Cable

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

Rw = Range

1 Sensor Type

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

Jacket

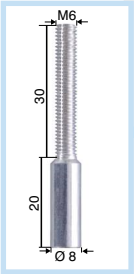
PVC
Bending radius: 40 mm
Temperature Range: –25 °C...80 °C
Ø 4,0 — **1**

Brass Nickel-Plated
Bending radius: 50 mm
Temperature Range: –25 °C...300 °C*
Ø 5,9 — **2**

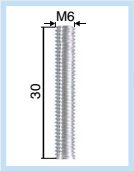
Stainless Steel
Bending radius: 60 mm
Temperature Range: –25 °C...300 °C*
Ø 5,9 — **3**

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

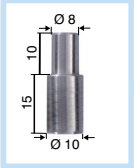
2 Endpot



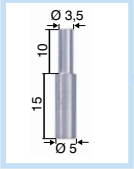
Aluminium **5 6**



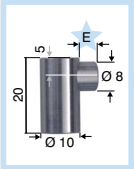
Stainless Steel **5 6** — Only with PVC jacket



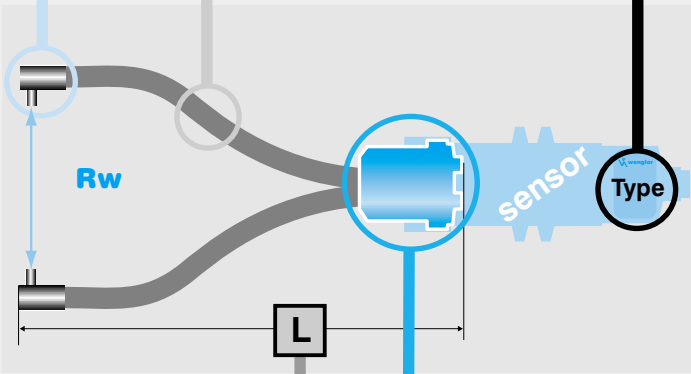
Stainless Steel **2 1**



Aluminium **1 0** — Only with PVC jacket



Stainless Steel **3 7**



3

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

2 Not with Metall - Silikon
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 300 °C only with order number addition "T"!

Specifications are subject to change without notice