Glass Fiber-Optic Cable
Through-Beam Mode

303-239-108
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	3 mm
Range with Sensor Type U_87__	3800 mm
Range with Sensor Type U_88__	3200 mm
Range with Sensor Type U_66__	1600 mm
Range with Sensor Type U_55__	800 mm
Opening Angle	68 °
Fiber	Step Index
Fiber Diameter	50 µm
Mechanical Data	
Temperature Range	-25...180 °C
Bending Radius	50 mm
Fiber-Optic Length	2 m
Jacket Material	CuZn, nickel-plated
Material End Sleeve	Aluminum
End Sleeve No.	39
Light Emission	sidewise
Fiber-Optic Cable Adapter No.	01
Suitable Mounting Technology No.	180

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.

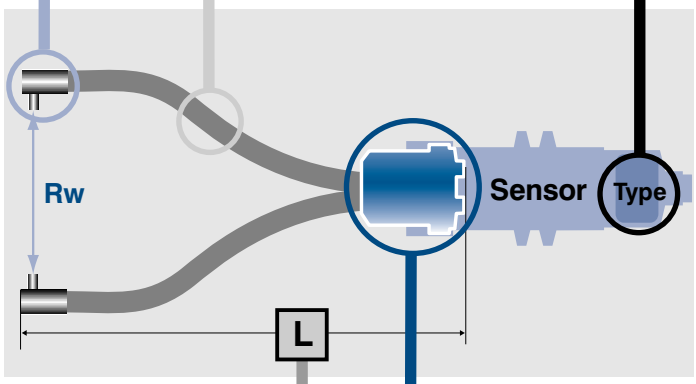
4 Choose the length of the Fiber arm (in 0,25 m steps).

Fiber optic length				
5,0 m	4,0 m	3,0 m	2,0 m	1,0 m
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

Rw = Range

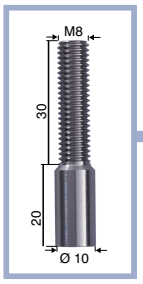
1 Sensor Type

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

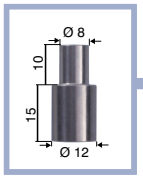


Jacket

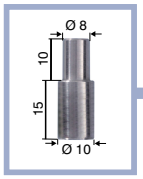
2 Endpot



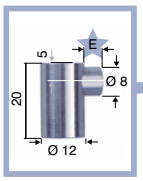
Stainless Steel **5 1**



Stainless Steel **2 3**

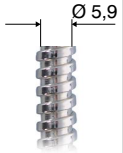


Stainless Steel **2 1**



Aluminium **3 9**

Brass Nickel-Plated
Bending radius: 50 mm
Temperature Range: –25 °C...250 °C*



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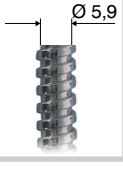
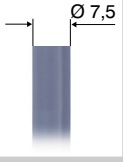
Stainless Steel
Bending radius: 60 mm
Temperature Range: –25 °C...250 °C*



3

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



4

3 Adapter

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

2 Not with Metal/Silicone

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 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"!**