

Glass Fiber-Optic Cable

Reflex Mode

161-256-102

Part Number



- A broad range of applications are possible due to the modular system design
- Compatible with the P1XF001 6-channel Multispectral Sensor
- Stock types deliverable at short notice

Technical Data

Optical Data

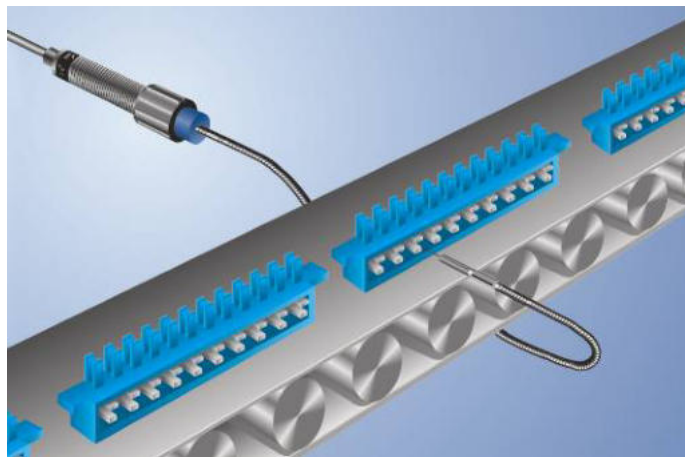
Fiber Bundle Diameter	1,6 mm
Range with Sensor Type U_87__	240 mm
Range with Sensor Type U_88__	160 mm
Range with Sensor Type U_66__	80 mm
Range with Sensor Type U_55__	40 mm
Range with Sensor Type P1XF001	0...25 mm
Opening Angle	68 °
Fiber	Step Index
Fiber Diameter	50 µm
Fiber Distribution	separate fiber bundles

Mechanical Data

Temperature Range	-25...180 °C
Bending Radius	50 mm
Fiber-Optic Length	0,5 m
Jacket Material	CuZn, nickel-plated
Material End Sleeve	Aluminum
End Sleeve No.	56
Light Emission	straight

Fiber-Optic Cable Adapter No.	01
Suitable Mounting Technology No.	210 230

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

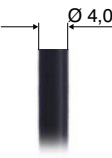
Choose your individual Glass Fiber Optic Cable

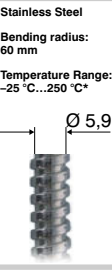
- 1 First you have to choose the required range.
If you cannot find a suitable range please change to another Fiber bundle diameter. The range depends on the length of the Fiber optic cable and the switching range of the chosen wenglor sensor.
- 2 Choose the jacket and the endpoint.
- 3 Choose the right adapter for your wenglor sensor.
- 4 Choose the length of the Fiber arm (in 0,25 m steps).

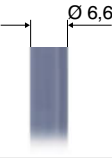
Fiber optic length				
2,0 m	1,5 m	1,0 m	0,5 m	0,25 m
195 mm	215 mm	240 mm	270 mm	300 mm
130 mm	145 mm	160 mm	180 mm	200 mm
65 mm	72 mm	80 mm	90 mm	100 mm
32 mm	36 mm	40 mm	45 mm	50 mm
140 mm	150 mm	160 mm	170 mm	180 mm

1	Sensor Type
U_87	—
U_88	—
U_66	—
U_55	—
ODX	—

Jacket

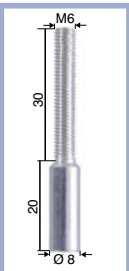
PVC
 Bending radius: 40 mm
 Temperature Range: -25 °C...80 °C


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


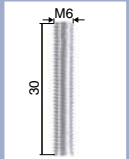
Metal/Silicone
 Bending radius: 45 mm
 Temperature Range: -25 °C...180 °C


Tw = Range

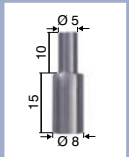
2 Endpoint



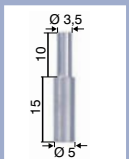
Aluminium
5 6
Only with Brass Nickel-Plated, Stainless Steel and Metal/Silicone Jacket



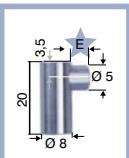
Aluminium
5 6
Only with PVC jacket



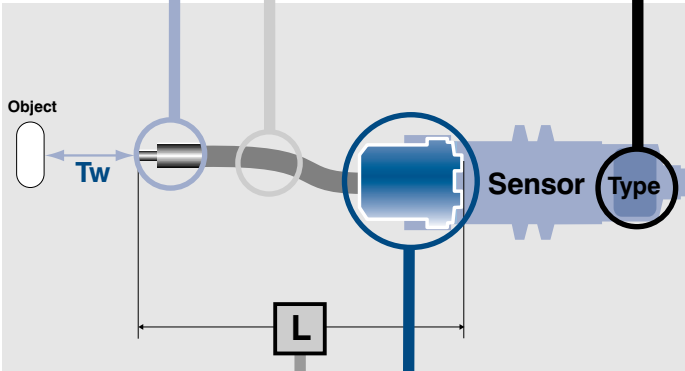
Stainless Steel
1 5



Stainless Steel
1 0
Only with PVC jacket



Aluminium
3 8



1 Sensor Type

U_87	—
U_88	—
U_66	—
U_55	—
ODX	—

3 Adapter

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

4 Length

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

1 6 1

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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"!

Specifications are subject to change without notice