

Technical data sheet Glass fiber optics type diffuse reflective

Part no.: 50153810

GF-LB-SS-410-SM



Contents

- Technical data
- Dimensioned drawings
- Further information

Technical data



Basic data

Duoio uutu	
Series	GF
Operating principle	Throughbeam principle
Device type	Transmit and receive fiber
Area of application	General applications
Special version	
Special version	Heat resistant
Optical data	
Opening angle	60 °
Light beam exit	Front
Fiber core	Mixed fiber configuration
	Multiple fiber core
Fiber core material	Glass
Active fiber diameter	1 mm
Operating range with LV461	0 150 mm
Operating range with LV462	0 250 mm
Operating range with LV463	0 400 mm
Operating range with LV463.XV	0 680 mm

0 ... 1,000 mm

0 ... 2,000 mm

2.2 mm

Connection

Connection.	amplifier side	Ø

Operating range with LV463.XR

Operating range with LV463I.XR

Mechanical data

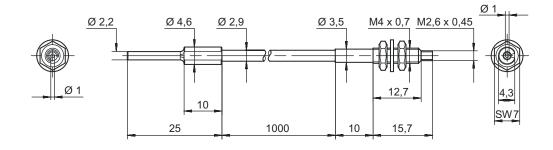
Design	Cylindrical
Outer diameter	2.9 mm
Head material	Stainless steel
Туре	Glass fiber optics (GF)
Fiber length	1,000 mm
Fiber sheathing material	Stainless steel
Fastening of the probe	M4
Smallest bending radius (static)	R23
Smallest bending radius (moving)	R23
Sleeve length at optical outlet	25.7 mm
Metric thread on fiber optic sleeve	Yes
Laying	standard

Environmental data

-40 250 °C
90011090
27270905
27270905
27270905
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27273606
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EC002651

Dimensioned drawings

All dimensions in millimeters



Notes





Observe intended use!



- 🖔 This product is not a safety sensor and is not intended as personnel protection.
- \$ The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

Further information

- Suitable products for operating these fiber optics are the fiber optic amplifiers LV461, LV462B as well as LV463, LV463.XV and LV463.XR.
- The maximum range is limited by the length of the light conductor.
- Operating range measured on a white object (90% diffuse reflection) with the following settings on the fiber optic amplifier:
 - max. response time

 - max. amplificationmin. switching threshold

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We reserve the right to make technical changes