

Technical data sheet Plastic fiber optics for throughbeam operation

Part no.: 50126967

KF-LH-320-D



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Technical data



Basic data

Series	KF
Operating principle	Throughbeam principle
Device type	Transmit and receive fiber
Area of application	General applications
Special version	

Heat resistant

Special version Ontical data

Optical data	
Light beam exit	Lateral
Fiber core	Single fiber core
Fiber core material	Plastic
Active fiber diameter	1 mm
Operating range with LV461	0 150 mm
Operating range with LV462	0 260 mm
Operating range with LV463	0 450 mm
Operating range with LV463.XV	0 675 mm
Operating range with LV463.XR	0 810 mm
Operating range with LV463I.XR	0 1,215 mm

Measurement data

Minimum object diameter	0.1 mm
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Mechanical data

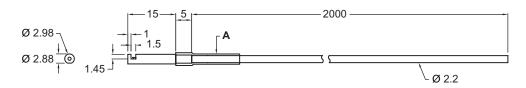
Design	Cylindrical		
Outer diameter	2.2 mm		
Head material	Stainless steel		
Туре	Plastic fiber optics (KF)		
Fiber length	2,000 mm		
Fiber sheathing material	PE		
Fastening of the probe	Ø 3 mm R25		
Smallest bending radius (moving)			
Sleeve length at optical outlet	15 mm		
Metric thread on fiber optic sleeve	No		
Laying	standard		
Damping at λ = 650nm	210 dB/km		

Environmental data

Ambient temperature, operation	-55 105 °C	
Classification		
Customs tariff number	90011090	
ECLASS 5.1.4	27270905	
ECLASS 8.0	27270905	
ECLASS 9.0	27270905	
ECLASS 10.0	27270905	
ECLASS 11.0	27273606	
ECLASS 12.0	27273606	
ECLASS 13.0	27273606	
ECLASS 14.0	27273606	
ECLASS 15.0	27273606	
ETIM 5.0	EC002651	
ETIM 6.0	EC002651	
ETIM 7.0	EC002651	
ETIM 8.0	EC002651	
ETIM 9.0	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 setting on the fiber optic amplifier:
 - max. response time
 - max. amplification
 - · min. switching threshold

Accessories

General

 Part no.	Designation	Article	Description
50135984	KF-PT-SS-619	Protective housing	Type of article: Protection tube for mechanical protection of plastic fiber optic cables Suitable for: Plastic fiber optics Length: 1,900 mm Outer diameter: 4.6 mm Inner diameter: 3 mm Material: Stainless steel
50117785 **	KLC-4530	Tool	Type: Cutting tool

^{**} Included in delivery contents

Note



🔖 A list with all available accessories can be found on the Leuze website in the Download tab of the article detailed page.