

Technical data sheet Plastic fiber optics for throughbeam operation Part no.: 50117740

KF-LH-305-D



Technical data

Leuze

Basic data

Series	KF
Operating principle	Throughbeam principle
Device type	Transmit and receive fiber
Area of application	General applications
Special version	
Special version	Heat resistant
Optical data	
Light beam exit	Lateral
Light beam exit Fiber core	Lateral Single fiber core
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Fiber core	Single fiber core
Fiber core Fiber core material	Single fiber core Plastic
Fiber core Fiber core material Active fiber diameter	Single fiber core Plastic 1 mm
Fiber core Fiber core material Active fiber diameter Operating range with LV461	Single fiber core Plastic 1 mm 0 150 mm
Fiber core Fiber core material Active fiber diameter Operating range with LV461 Operating range with LV462	Single fiber core Plastic 1 mm 0 150 mm 0 260 mm
Fiber core Fiber core material Active fiber diameter Operating range with LV461 Operating range with LV462 Operating range with LV463	Single fiber core Plastic 1 mm 0 150 mm 0 260 mm 0 450 mm

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

Environmental data

Measurement data

Minimum object diameter

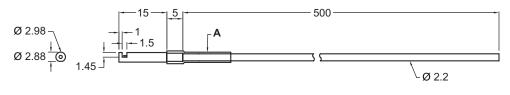
Mechanical data

Design	Cylindrical	
Outer diameter	2.2 mm	
Head material	Stainless steel	
Туре	Plastic fiber optics (KF)	
Fiber length	500 mm	
Fiber sheathing material	PE	
Fastening of the probe	Ø 3 mm	
Smallest bending radius (moving)	R25	
Sleeve length at optical outlet	15 mm	
Metric thread on fiber optic sleeve	No	
Laying	standard	
Damping at λ = 650nm	210 dB/km	

0.1 mm

Dimensioned drawings

All dimensions in millimeters



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Notes



Observe intended use!

∜ This product is not a safety sensor and is not intended as personnel protection.

 $\ensuremath{^{\ensuremath{\oplus}}}$ The product may only be put into operation by competent persons.

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

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