

## Technical data sheet

### Plastic fiber optics for throughbeam operation

Part no.: 50126967

KF-LH-320-D

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For illustration purposes only

## Technical data

### 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
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### 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
Net weight	27 g
Head material	Stainless steel
Type	Plastic fiber optics (KF)
Fiber length	2,000 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 $\lambda = 650\text{nm}$	210 dB/km

## Dimensioned drawings

All dimensions in millimeters



A Protection tube Ø 3.5

## Notes

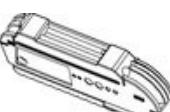
	<b>Observe intended use!</b>
	<p>⚠ This product is not a safety sensor and is not intended as personnel protection.</p> <p>⚠ The product may only be put into operation by competent persons.</p> <p>⚠ Only use the product in accordance with its intended use.</p>

## 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. 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 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.