

Technical data sheet Plastic fiber optics for throughbeam operation

Part no.: 50117748 KF-LW-FU53-20



Technical data

Leuze

Basic data

Series	KF
Operating principle	Throughbeam principle
Device type	Transmit and receive fiber
Area of application	General applications
Optical data	
Light beam exit	Lateral
Fiber core	Single fiber core
Fiber core material	Plastic
Active fiber diameter	0.5 mm
Operating range with LV461	0 15 mm
Operating range with LV462	0 26 mm
Operating range with LV463	0 50 mm
Operating range with LV463.XV	0 70 mm
Operating range with LV463.XR	0 95 mm

Ambient temperature, operation	-40 70 °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

Operating range with LV463I.XR

Mechanical data

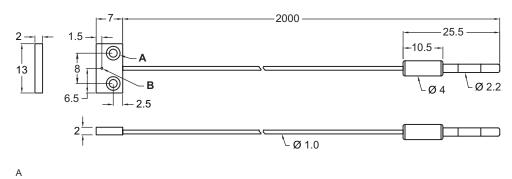
Cubic	
1 mm	
Stainless steel	
Plastic fiber optics (KF)	
2,000 mm	
PE	
2 x Ø 2.1mm	
R1	
Highly flexible	
210 dB/km	

0 ... 150 mm

0.1 mm

Dimensioned drawings

All dimensions in millimeters



В

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.

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