

Technical data sheet Plastic fiber optics for throughbeam operation

Part no.: 50117768

KFX-LH-420



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Technical data



Basic data

Series	KFX	
Operating principle	Throughbeam principle	
Device type	Transmit and receive fiber	
Area of application	General applications	
Special version		
Special version	Heat resistant	
Optical data		
	Front	
Light beam exit	Front	
Light beam exit Fiber core	Front Single fiber core	
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	

0 ... 1,350 mm

0 ... 1,620 mm

0 ... 2,430 mm

Measurement data

Operating range with LV463.XV

Operating range with LV463.XR

Operating range with LV463I.XR

Minimum object diameter 0.5 mm	iameter 0.5 mm
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Mechanical data

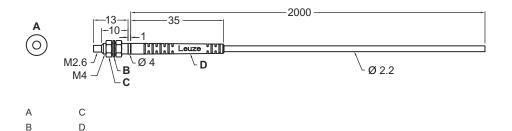
wechanical data		
Design	Cylindrical	
Outer diameter	2.2 mm	
Head material	Stainless steel	
Туре	Plastic fiber optics with bend protection (KFX)	
Fiber length	2,000 mm	
Fiber sheathing material	PE	
Fastening of the probe	M4 x 0.7 mm	
Smallest bending radius (moving)	R25	
Sleeve length at optical outlet	13 mm	
Metric thread on fiber optic sleeve	Yes	
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
50117779	KL-M02	Attachment lens	Type of fastening: Screw type Functions: Collimated
50117784	KL-M06	Attachment lens	Type of fastening: Screw type Functions: Collimated
50117782	KL-SM02	Attachment lens	Functions: 90° - deflection Type of fastening: Screw type
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.