

Technical data sheet Plastic fiber optics for throughbeam operation Part no.: 50122328

KF-LP-FU92-520-Q



Technical data

Leuze

Basic data

Series	KF
Operating principle	Throughbeam principle
Device type	Transmit and receive fiber
Area of application	Oil and chemical resistant
Optical data	

Light beam exit Front Fiber core Single fiber core Fiber core material Plastic Active fiber diameter 1 mm Operating range with LV461 0 ... 600 mm Operating range with LV462 0 ... 1,000 mm Operating range with LV463 0 ... 1,800 mm Operating range with LV463.XV 0 ... 2,700 mm Operating range with LV463.XR 0 ... 3,250 mm Operating range with LV463I.XR 0 ... 4,860 mm

Measurement data

Minimum object diameter

Mechanical data

Design	Cylindrical
Design	Cymruncar
Outer diameter	4 mm
Head material	Plastic
Туре	Plastic fiber optics (KF)
Fiber length	2,000 mm
Fiber sheathing material	PTFE
Fastening of the probe	Ø 5 mm
Smallest bending radius (moving)	R25
Sleeve length at optical outlet	22 mm
Metric thread on fiber optic sleeve	No
Laying	standard
Damping at λ = 650nm	210 dB/km

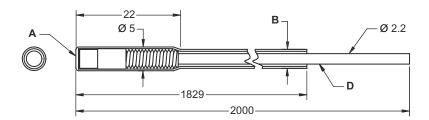
0.5 mm

Environmental data

Ambient temperature, operation	-55 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
ETIM 10.0	EC002651

Dimensioned drawings

All dimensions in millimeters



A Lens

С

0

B Ø 4.0 mm PTFE

C Ø 1.0 mm glass fiber core x 1 pc

D Polyethylene

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 settings 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	t 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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