

## Technical data sheet Plastic fiber optics for throughbeam operation

Part no.: 50117747 KF-L-50ML-20



## **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	Area detection
Optical data	
Light beam exit	Lateral
Fiber core	Mixed fiber configuration
	Multiple fiber core
Fiber core material	Plastic
Active fiber diameter	0.265 mm x 32 Piece(s)
Operating range with LV461	0 250 mm
Operating range with LV462	0 430 mm
Operating range with LV463	0 900 mm
Operating range with LV463.XV	0 1,300 mm
Operating range with LV463.XR	0 1,550 mm
Operating range with LV463I.XR	0 2,500 mm

#### **Measurement data**

Minimum object diameter

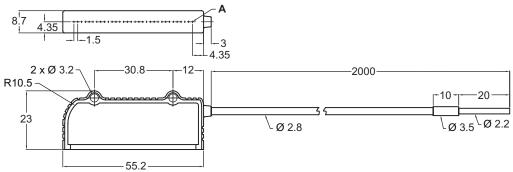
#### **Mechanical data**

Design	Cubic
Outer diameter	2.2 mm
Head material	Plastic
Туре	Plastic fiber optics (KF)
Fiber length	2,000 mm
Light field width	46.5 mm
Fiber sheathing material	PE
Fastening of the probe	2 x Ø 3.2mm
Smallest bending radius (moving)	R60
Laying	standard
Damping at λ = 650nm	210 dB/km

2 mm

## **Dimensioned drawings**

All dimensions in millimeters



Ø 0.265 mm glass fiber core x 32 pcs А

-55 70 °C
90011090
27270905
27270905
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27273606
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EC002651

**Environmental data** 

### **Notes**





### **Observe intended use!**

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

rightarrow 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 time

max. amplificationmin. switching threshold