

Technical data sheet Plastic fiber optics type diffuse reflective Part no.: 50150211 KF-ET-650



KF

Diffuse reflection principle General applications

Technical data

Leuze

Basic data

Series		
Operating principle		
Area of application		

Optical data

Light beam exit	Front
Fiber core	50%/50% fiber configuration
Fiber core material	Plastic
Active fiber diameter	1 mm
Operating range with LV461	0 80 mm
Operating range with LV462	0 140 mm
Operating range with LV463	0 200 mm
Operating range with LV463.XV	0 300 mm
Operating range with LV463.XR	0 360 mm
Operating range with LV463I.XR	0 360 mm

Measurement data

Minimum object diameter

Mechanical data

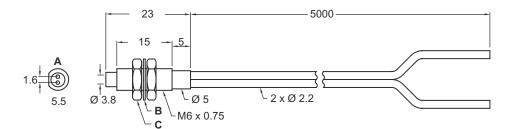
0.2 mm

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 $\ \ \,$ Ø 1.0 mm glass fiber core x 2 pcs

B Lock washer Ø 11 mm

C Width Ø 10 mm

Thickness 2.5 mm

Notes

Observe intended use!

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

b 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

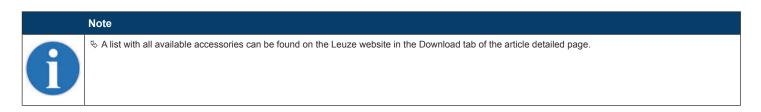
max. amplificationmin. switching threshold

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
50117781	KL-M04	Attachment lens	Functions: Focusing of light spot Light spot diameter: 0.7 mm Focal distance: 10 mm Type of fastening: Screw type
50117785 **	KLC-4530	Tool	Type: Cutting tool

** Included in delivery contents



Leuze