Technical data sheet

Plastic fiber optics type diffuse reflective

Part no.: 50117729

KF-ET-20MLS-20

For Illustration purposes only

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Technical data

Basic data

Series	KF
Operating principle	Diffuse reflection principle
Area of application	General applications

Special version

Special version	Area detection

Optical data

Light beam exit	Front
Fiber core	Mixed fiber configuration
	Multiple fiber core
Fiber core material	Plastic
Active fiber diameter	0.265 mm x 16 Piece(s)
Operating range with LV461	0 ... 70 mm
Operating range with LV462	0 ... 120 mm
Operating range with LV463	0 ... 210 mm
Operating range with LV463.XV	0 ... 315 mm
Operating range with LV463.XR	0 ... 380 mm
Operating range with LV463I.XR	0 ... 570 mm

Measurement data

Minimum object diameter	1 mm

Mechanical data

Design	Cubic
Outer diameter	2.2 mm
Net weight	34 g
Head material	Metal
Type	Plastic fiber optics (KF)
Fiber length	2,000 mm
Light field width	11 mm
Fiber sheathing material	PE
Fastening of the probe	3 x M3
Smallest bending radius (moving)	R25
Laying	standard
Damping at λ = 650nm	210 dB/km

Environmental data

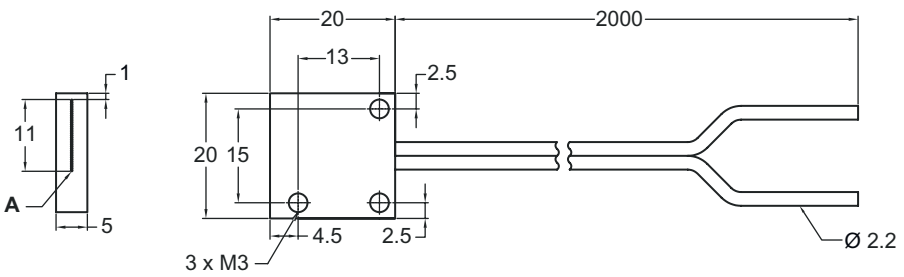
Ambient temperature, operation	-55 ... 70 °C

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
ECLASS 16.0	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
UNSPSC 26.08	41112103

Dimensioned drawings

All dimensions in millimeters



A 0.265 mm x 16 pcs transmitter
0.265 mm x 16 pcs receiver

Notes

Observe intended use!

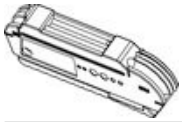
- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

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 settings 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 Outer diameter: 4.6 mm Inner diameter: 3 mm Material: Stainless steel
	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.