PIES46UT
Plastic Fiber – Single Conductor

Technical data

Type	PIES46UT
ID	3051758
Optical data	
Function	Opposed mode sensor (emitter/receiver)
Fiber-optic type	Plastic
Mechanical data	
Design	Circular
Dimensions	1828 mm
Housing material	Plastic, PE, Black
Jacket material	FEP
Jacket material	plastic, PE
Bundle diameter	1 mm
Material of the fiber-optic tip	FEP
Bending cycles	10000
Bending radius	Ø 25 mm
Ambient temperature	-30…+70 °C
Max. temperature tip	70 °C
Protection class	IP67
Special features	Chemical-resistant Resistant to chemicals

Features

- Operation: opposed mode
- 2 pcs. included in delivery
- Polyethylene sheath, flexible
- Operating temperature: -30…+70 °C
- Male end, pluggable
- End-sleeve for probe: encapsulated (Fluropolymer), lateral light emission
- Optical fiber, core diameter 1.0 mm
- Optical fiber, total length: ± 1829 mm

Functional principle

Glass or plastic fibers are the optimum choice for high-temperature applications and limited spaces. They transfer the light from the sensor to a remote object. Individual fibers are used for opposed mode sensing, whereas bifurcated fibers are suited for retroreflective or diffuse mode operation.