PBT46UM6M.1
Plastic Fiber – Bifurcated Fiber

Technical data

Type	PBT46UM6M.1
ID no.	3077833
Optical data	
Function	Diffuse mode sensor
Fiber-optic type	Plastic
Mechanical data	
Design	Threaded barrel
Dimensions	1828 mm
Housing material	Plastic, PE, Black
Jacket material	Polyethylene
Jacket material	plastic, PE
Bundle diameter	1 mm
Material of the fiber-optic tip	Nickel-Plated Brass
Bending cycles	5000
Bending radius	Ø 25 mm
Ambient temperature	-30…+85 °C
Max. temperature tip	70 °C
Protection class	IP67

Features

- Operation: diffuse/opposed mode
- Polyethylene sheath, flexible
- Operating temperature: -30…+70 °C
- Cable, straight, customizable
- End sleeve for sensor: Thread
- 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.