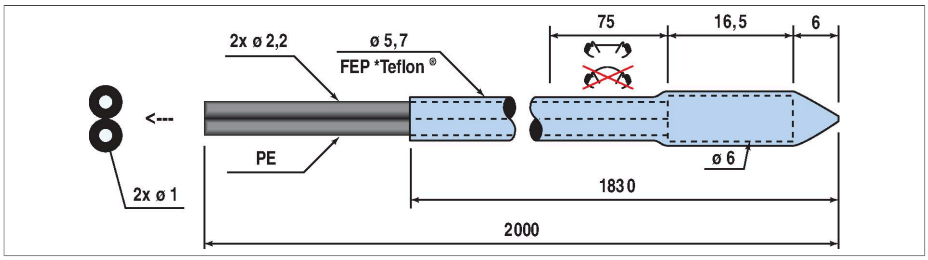
PBE415UTMLLP
Plastic Fiber – Bifurcated Fiber



Technical data

Type	PBE415UTMLLP
ID no.	3056076
Optical data	
Function	Diffuse mode sensor
Fiber-optic type	Plastic
Mechanical data	
Design	Circular
Dimensions	3658 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	5000
Bending radius	Ø 25 mm
Ambient temperature	-30…+85 °C
Max. temperature tip	70 °C
Protection class	IP67
Special features	Chemical-resistant Filling level detection Resistant to chemicals

Features

- Operation: diffuse/opposed mode
- Polyethylene sheath, flexible
- Operating temperature: -30…+70 °C
- Male end, pluggable
- End sleeve for sensor, encapsulated
- Optical fiber, core diameter 1.0 mm
- Total length of optical fiber: ± 4572 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.