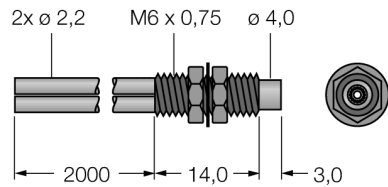


# Plastic Fiber Bifurcated Fiber PBCT46U



- Operation: diffuse/opposed mode
- Polyethylene sheath, flexible
- Operating temperature: -30...+70 °C
- Cable, straight, customizable
- End sleeve for probe, coaxial M6 × 0.75 threaded
- 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.

|                                 |                     |
|---------------------------------|---------------------|
| Type                            | PBCT46U             |
| ID                              | 3035214             |
| Optical data                    |                     |
| Function                        | Diffuse mode sensor |
| Fiber-optic type                | Plastic             |
| Mechanical data                 |                     |
| Design                          | Circular            |
| 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                  | 10000               |
| Bending radius                  | Ø 5 mm              |
| Ambient temperature             | -30...+70 °C        |
| Max. temperature tip            | 70 °C               |