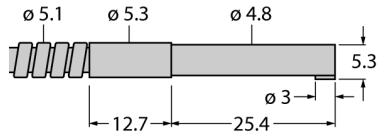


# Glass Fiber Single Conductor IA1.53SMETA



- Operating mode: Opposed mode sensor
- Stainless steel jacket, flexible
- Operating temperature of fiber-optic jacket: -140...+249 °C
- End sleeve for sensor: Stainless steel, narrow angled (90 °)
- Operating temperature of fiber-optic tip: -140...+249 °C:
- Optical fiber, bundle diameter: 2.56 mm
- Optical fiber, total length: ± 914 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                            | IA1.53SMETA                            |
| ID                              | 3020501                                |
| <b>Optical data</b>             |  |
| Function                        | Opposed mode sensor (emitter/receiver) |
| Fiber-optic type                | Glass                                  |
| <b>Mechanical data</b>          |  |
| Design                          | Circular                               |
| Housing material                | Stainless steel                        |
| Jacket material                 | Stainless-steel mono-winding coil      |
| Jacket material                 | metal, 1.4310 (AISI 301)               |
| Bundle diameter                 | 2.56 mm                                |
| Material of the fiber-optic tip | Stainless Steel                        |
| Bending radius                  | Ø 25 mm                                |
| Ambient temperature             | -140...+249 °C                         |
| Max. temperature tip            | 249 °C                                 |