

# FUF 050A4004

Glass fiber optic cable

Article number: 10218385

## Overview

- Diffuse type
- Sensing distance up to 35 mm
- Cylindrical smooth sensing head  $\varnothing 4$  mm, side view
- Metal jacket 50 cm long
- Operating temperature up to +120 °C
- For rugged fiber optic sensors FZAM 18 and FZAM 30



Picture similar

## Technical data

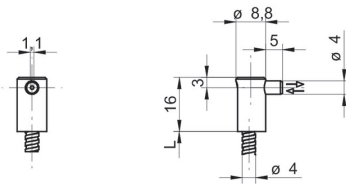
### General data

|   |                                  |
|---|----------------------------------|
| Particular characteristics              | Smooth sensing head<br>Side view |
| Operating principle                     | Diffuse type                     |
| Sensing distance Tw                     | 35 mm                            |
| Fiber optic head                        | Cylindrical smooth, side view    |
| Operating temperature                   | -25 ... +120 °C                  |
| Exit angle                              | 60°                              |
| Fiber optics can be shortened to length | No                               |
| Integrated lens                         | No                               |
| Adaptable lens                          | No                               |
| Infrared light compatibility (1450 nm)  | Yes                              |

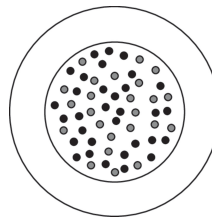
### Mechanical data

|                              |                       |
|------------------------------|-----------------------|
| Width / diameter (head)      | 4 mm                  |
| Height / length (head)       | 16 mm                 |
| Material (head)              | Aluminum              |
| Bending radius (fixed)       | 15 mm                 |
| Bending radius (mobile)      | 24 mm                 |
| Cable jacket diameter        | 4 mm                  |
| Material cable jacket        | Brass chromium plated |
| Fiber cross section          | 0.5 mm <sup>2</sup>   |
| Material (fiber optic cable) | Glass                 |
| Length (fiber optic cable)   | 50 cm                 |

## Dimension drawing



## Fiber arrangement



## Sensing distance diagram

| Sensor                      | Sensing Distance Tw [mm] |
|-----------------------------|--------------------------|
| FZAM 30x5004                | 35                       |
| FZAM 30x5001                | 15                       |
| FZAM 18x1150 & FZAM 18x6460 | 20                       |
| FZAM 18x1155                | 10                       |

**Accessories****Fitting fiber optic sensors**

|          |                  |
|----------|------------------|
| 10129020 | FZAM 18N1150     |
| 10129021 | FZAM 18N1150/S14 |
| 10129023 | FZAM 18N1155     |
| 10128874 | FZAM 18N6460     |
| 10128875 | FZAM 18N6460/S14 |
| 10127712 | FZAM 18P1150     |
| 10128111 | FZAM 18P1150/S14 |
| 10127711 | FZAM 18P1155     |
| 10128118 | FZAM 18P6460     |
| 10127710 | FZAM 18P6460/S14 |
| 10215060 | FZAM 30N5004     |
| 10214166 | FZAM 30P5001     |
| 10215057 | FZAM 30P5004     |

**Mounting accessories**

|          |   |
|----------|---|
| 10106042 | Adapter series 30 for angeled fiber optics      |
| 10101958 | Adjusting plate series 18                       |
| 10101480 | Replacements cap nut for fiber optics series 18 |
| 10102801 | Cap nut for sensors series 30                   |