

# FCE 200DS301

Plastic fiber optic cable

Article number: 11708614

## Overview

- Diffuse type
- Sensing distance up to 240 mm
- Cylindrical smooth sensing head  $\varnothing 3$  mm with thin sleeve  $\varnothing 1.5$  mm, coaxial fiber layout for increased precision
- Plastic fiber 200 cm long, with bend protection
- Operating temperature up to  $+70$  °C
- For compact fiber optic sensors FVDK 10 and OF10



Picture similar

## Technical data

### General data

|                            |   |
|----------------------------|---|
| Particular characteristics | Smooth sensing head<br>Coaxial fiber layout<br>Fine sleeve<br>Bend protection |
|----------------------------|---|

|   |                                 |
|---|---------------------------------|
| Operating principle                     | Diffuse type                    |
| Sensing distance $T_w$                  | 240 mm                          |
| Fiber optic head                        | Cylindrical smooth, with sleeve |
| Operating temperature                   | $-55 \dots +70$ °C              |
| Exit angle                              | $60^\circ$                      |
| Fiber optics can be shortened to length | Yes                             |
| Integrated lens                         | No                              |
| Adaptable lens                          | No                              |

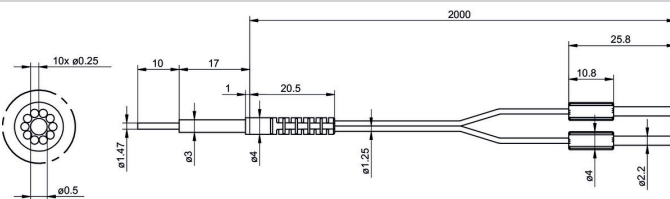
### General data

|  |    |
|--|----|
| Infrared light compatibility (1450 nm) | No |
|--|----|

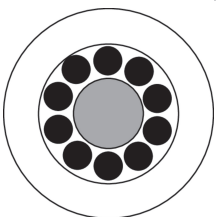
### Mechanical data

|                              |                 |
|------------------------------|-----------------|
| Diameter Fiber               | 0.5 mm          |
| Width / diameter (head)      | 3 mm            |
| Height / length (head)       | 25 mm           |
| Material (head)              | Stainless steel |
| Bending radius (fixed)       | 15 mm           |
| Cable jacket diameter        | 1.25 mm         |
| Material cable jacket        | PE              |
| Material (fiber optic cable) | Plastic         |
| Length (fiber optic cable)   | 200 cm          |

## Dimension drawing



## Fiber arrangement



## Sensing distance diagram

|           | Mode             | Sensing Distance $T_w$ [mm] |
|-----------|------------------|-----------------------------|
| OF10      | Ultra-High-Speed | 111                         |
|           | High-Speed       | 142                         |
|           | Standard         | 148                         |
|           | High-Resolution  | 174                         |
|           | Long-Range       | 202                         |
|           | Ultra-Long-Range | 240                         |
| FVDK 10x6 | Fast             | 90                          |
|           | Semi Fast        | 133                         |
|           | Normal           | 147                         |
| FVDK 10x5 | Potentiometer    | 26                          |

## Accessories

### Fitting fiber optic sensors

|          |                        |
|----------|------------------------|
| 11252204 | OF10.FR-GW2J.B2NV/A014 |
| 11244386 | OF10.FR-GW2J.B2CV/A014 |
| 11224111 | OF10.FR-PW1B.B2N       |
| 11224008 | OF10.FR-NW1B.B2CV      |
| 11224009 | OF10.FR-NW1B.B2N       |
| 11224110 | OF10.FR-PW1B.B2CV      |
| 11244384 | OF10.FR-GW2J.B2N/A014  |
| 10162867 | FVDK 10N5101           |
| 10162865 | FVDK 10N5101/S35A      |
| 10162866 | FVDK 10P5101           |
| 10162864 | FVDK 10P5101/S35A      |
| 11045446 | FVDK 10N66Y0           |
| 11045448 | FVDK 10N66Y0/S35A      |
| 11045460 | FVDK 10N66YR           |
| 11045445 | FVDK 10P66Y0           |
| 11045447 | FVDK 10P66Y0/S35A      |
| 11045449 | FVDK 10P66YR           |
| 11214490 | FVDK 10P66ZR           |
| 11214493 | FVDK 10P66Z0/S35A      |
| 11214478 | FVDK 10P66Z0           |
| 11214492 | FVDK 10N66ZR           |
| 11214494 | FVDK 10N66Z0/S35A      |
| 11214479 | FVDK 10N66Z0           |
| 11045462 | FVDK 10N66YM           |
| 11045464 | FVDK 10N66YS           |
| 11045461 | FVDK 10P66YM           |
| 11045463 | FVDK 10P66YS           |

### Mounting accessories

|          |                  |
|----------|------------------|
| 11708552 | ZTOOL-FBR.CUTTER |
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### Lenses and components

|          |                 |
|----------|-----------------|
| 11708559 | ZADAP-FBR.1_3MM |
|----------|-----------------|