

# FCE 200DS150

Plastic fiber optic cable

Article number: 11708574

## Overview

- Diffuse type
- Sensing distance up to 184 mm
- Cylindrical smooth sensing head  $\varnothing 1.5$  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>Bend protection |
|----------------------------|--|

|                     |              |
|---------------------|--------------|
| Operating principle | Diffuse type |
|---------------------|--------------|

|                        |        |
|------------------------|--------|
| Sensing distance $T_w$ | 184 mm |
|------------------------|--------|

|                  |                    |
|------------------|--------------------|
| Fiber optic head | Cylindrical smooth |
|------------------|--------------------|

|                       |                |
|-----------------------|----------------|
| Operating temperature | -55 ... +70 °C |
|-----------------------|----------------|

|            |     |
|------------|-----|
| Exit angle | 60° |
|------------|-----|

|   |    |
|---|----|
| Fiber optics can be shortened to length | No |
|---|----|

|                 |    |
|-----------------|----|
| Integrated lens | No |
|-----------------|----|

|                |    |
|----------------|----|
| Adaptable lens | No |
|----------------|----|

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

### General data

|                              |          |
|------------------------------|----------|
| Smallest object recognizable | 0.005 mm |
|------------------------------|----------|

### Mechanical data

|                         |        |
|-------------------------|--------|
| Width / diameter (head) | 1.5 mm |
|-------------------------|--------|

|                        |       |
|------------------------|-------|
| Height / length (head) | 15 mm |
|------------------------|-------|

|                 |                 |
|-----------------|-----------------|
| Material (head) | Stainless steel |
|-----------------|-----------------|

|                        |       |
|------------------------|-------|
| Bending radius (fixed) | 15 mm |
|------------------------|-------|

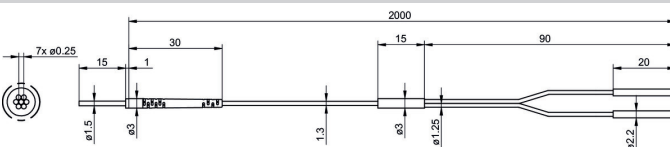
|                       |         |
|-----------------------|---------|
| Cable jacket diameter | 1.25 mm |
|-----------------------|---------|

|                       |    |
|-----------------------|----|
| Material cable jacket | PE |
|-----------------------|----|

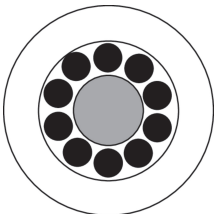
|                              |         |
|------------------------------|---------|
| Material (fiber optic cable) | Plastic |
|------------------------------|---------|

|                            |        |
|----------------------------|--------|
| Length (fiber optic cable) | 200 cm |
|----------------------------|--------|

## Dimension drawing



## Fiber arrangement



## Sensing distance diagram

|           | Mode             | Sensing Distance $T_w$ [mm] |
|-----------|------------------|-----------------------------|
| OF10      | Ultra-High-Speed | 53                          |
|           | High-Speed       | 89                          |
|           | Standard         | 91                          |
|           | High-Resolution  | 113                         |
|           | Long-Range       | 138                         |
|           | Ultra-Long-Range | 184                         |
| FVDK 10x6 | Fast             | 42                          |
|           | Semi Fast        | 71                          |
|           | Normal           | 87                          |
| FVDK 10x5 | Potentiometer    | 26                          |

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## 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           |

### Lenses and components

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