



# CV series

High temperature glass optical fibres



High temperature glass optical fibres

## features

- Models with flexible fibre heads (with sleeve)
- Wide range of accessories (AF serie)
- IP67 protection degree
- SSF - FS1 - FX3 - FX4 serie connectable
- Approvals: CE

## web contents



- Application notes
- Photos
- Catalogue / Manuals



## ordering system

glass fibres up to 200°C

type	SSF (EX.G.=1)	FS1 (EX.G.=1)	FX3 (EX.G.=1)	FX4 (EX.G.=1)	∅ optical fibre core	free-cut	length <sup>(2)</sup>	head shape	lenses	model <sup>(1)</sup>
scanner	50 mm	50 mm	150 mm	150 mm	1	-	1 - 2 m	M4	-	CV/CB1-**
				M4 + sleeve				CV/CB3 -**		
P/R	90 mm	90 mm	600 mm	900 mm				M4		CV/RB4 -**
										CV/RB6 -**


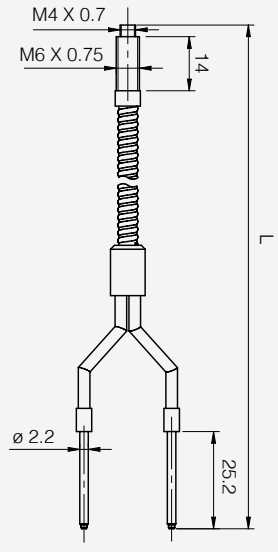
## ordering system

glass fibres up to 250°C


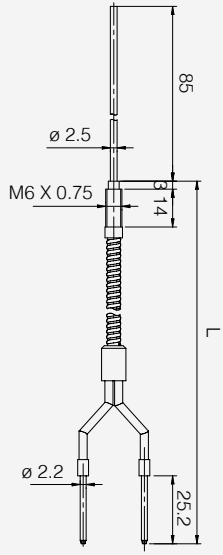
type	SSF (EX.G.=1)	FS1 (EX.G.=1)	FX3 (EX.G.=1)	FX4 (EX.G.=1)	F1	F2	F6	∅ optical fibre core	free-cut	length <sup>(2)</sup>	head shape	lenses	model <sup>(1)</sup>
scanner	50 mm	50 mm	150 mm	150 mm	-	70	-	1	-	1 - 2 m	M4	-	CV/CB1-**ME
							M4 + sleeve				CV/CB3 -**ME		
P/R	90 mm	90 mm	600 mm	900 mm	410	200	800				M4		CV/RB4 -**ME
													CV/RB6 -**ME

<sup>(1)</sup> The last two bits of the code show the fibre length (in dm) <sup>(2)</sup> Standard length  
Special lengths are available on request.


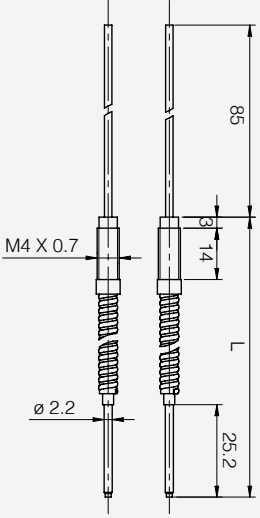
diffuse reflection (high temperature) CV/CB1-\*\* model

product	main features	dimensions (mm)																										
	<table border="1"> <tr> <td>∅ optical fibre core</td> <td>1 mm</td> </tr> <tr> <td>distance (with SSF)</td> <td>50 mm</td> </tr> <tr> <td>distance (with FS1)</td> <td>50 mm</td> </tr> <tr> <td>distance (with FX3)</td> <td>150 mm</td> </tr> <tr> <td>distance (with FX4)</td> <td>150 mm</td> </tr> <tr> <td>fibre length (L)</td> <td>1...2 m</td> </tr> <tr> <td>free-cut</td> <td>-</td> </tr> <tr> <td>head shape</td> <td>M4</td> </tr> <tr> <td>protection degree</td> <td>IP67 (EN60529)</td> </tr> <tr> <td>temperature range</td> <td>-40°C....+200°C (standard version) -40°C....+250°C (ME version)</td> </tr> <tr> <td>optical fibre materials</td> <td>glass, ETM, nickel plated brass</td> </tr> <tr> <td>head materials</td> <td>nickel plated brass</td> </tr> <tr> <td>accessories available</td> <td>AF/FC1, AF/FC2</td> </tr> </table>	∅ optical fibre core	1 mm	distance (with SSF)	50 mm	distance (with FS1)	50 mm	distance (with FX3)	150 mm	distance (with FX4)	150 mm	fibre length (L)	1...2 m	free-cut	-	head shape	M4	protection degree	IP67 (EN60529)	temperature range	-40°C....+200°C (standard version) -40°C....+250°C (ME version)	optical fibre materials	glass, ETM, nickel plated brass	head materials	nickel plated brass	accessories available	AF/FC1, AF/FC2	
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	free-cut	-																										
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	protection degree	IP67 (EN60529)																										
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accessories available	AF/FC1, AF/FC2																											


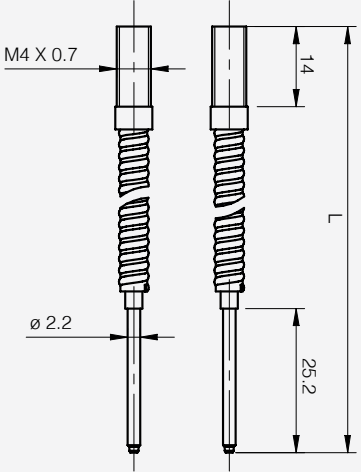
diffuse reflection with sleeve (high temperature) CV/CB3-\*\* model

product	main features	dimensions (mm)																										
	<table border="1"> <tr> <td>∅ optical fibre core</td> <td>1 mm</td> </tr> <tr> <td>distance (with SSF)</td> <td>50 mm</td> </tr> <tr> <td>distance (with FS1)</td> <td>50 mm</td> </tr> <tr> <td>distance (with FX3)</td> <td>150 mm</td> </tr> <tr> <td>distance (with FX4)</td> <td>150 mm</td> </tr> <tr> <td>fibre length (L)</td> <td>1...2 m</td> </tr> <tr> <td>free-cut</td> <td>-</td> </tr> <tr> <td>head shape</td> <td>M4 with sleeve</td> </tr> <tr> <td>protection degree</td> <td>IP67 (EN60529)</td> </tr> <tr> <td>temperature range</td> <td>-40°C....+200°C (standard version) -40°C....+250°C (ME version)</td> </tr> <tr> <td>optical fibre materials</td> <td>glass, ETM, inox</td> </tr> <tr> <td>head materials</td> <td>nickel plated brass</td> </tr> <tr> <td>accessories available</td> <td>.</td> </tr> </table>	∅ optical fibre core	1 mm	distance (with SSF)	50 mm	distance (with FS1)	50 mm	distance (with FX3)	150 mm	distance (with FX4)	150 mm	fibre length (L)	1...2 m	free-cut	-	head shape	M4 with sleeve	protection degree	IP67 (EN60529)	temperature range	-40°C....+200°C (standard version) -40°C....+250°C (ME version)	optical fibre materials	glass, ETM, inox	head materials	nickel plated brass	accessories available	.	
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head materials	nickel plated brass																											
accessories available	.																											

through-beam with sleeve (high temperature) CV/RA4-\*\*

product	main features	dimensions (mm)	
	Ø optical fibre core	1 mm	
	distance (with SSF)	90 mm	
	distance (with FS1)	90 mm	
	distance (with FX3)	600 mm	
	distance (with FX4)	900 mm	
	fibre length (L)	1...2 m	
	free-cut	-	
	head shape	M4 with sleeve	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+200°C (standard version) -40°C....+250°C (ME version)	
	optical fibre materials	glass, ETM, inox	
	head materials	nickel plated brass	
	accessories available	-	

through-beam (high temperature) CV/RB6-\*\* model

product	main features	dimensions (mm)	
	Ø optical fibre core	1 mm	
	distance (with SSF)	90 mm	
	distance (with FS1)	90 mm	
	distance (with FX3)	600 mm	
	distance (with FX4)	900 mm	
	fibre length (L)	1...2 m	
	free-cut	-	
	head shape	M4	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+200°C (standard version) -40°C....+250°C (ME version)	
	optical fibre materials	glass, ETM, inox	
	head materials	nickel plated brass	
	accessories available	look AF series	



A series of 20 horizontal light blue bars stacked vertically, providing a space for handwritten notes.



# CV series

Accessories for CV optical fibres



## features

- Wide range of focusing devices
- Wide range of additional lenses
- IP67 protection degree
- SSF – FS1 – FX3 – FX4 series connectable
- Approvals: CE

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## ordering system


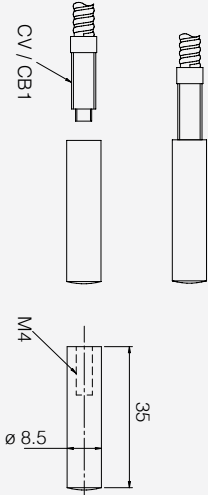
type	accessory type	SSF (EX.G.=1)	FS1 (EX.G.=1)	FX3 (EX.G.=1)	FX4 (EX.G.=1)	F1	F2	F6	∅ optical fibre core	head shape	fibre model	models
scanner	focalizzatore	25 mm	25 mm	30 mm	30 mm	-	70	-	1	∅ 6.5 mm	CV/CB1-**-	AF/FC1
		45 mm	45 mm	50 mm	50 mm						CV/CB1-**-	AF/FC2
P/R	lente addizionale	1,000 mm	1,000 mm	4,000 mm	4,000	410	200	800	1	∅ 5 mm	CV/RB6-**-	AF/ER1
		3,000 mm	3,000 mm	8,000 mm	10,000 mm						CV/RB6-**-	AF/ER2
				14,000 mm	16,000 mm						CV/RB6-**-	AF/ER3

### collimator lenses AF/FC1 model


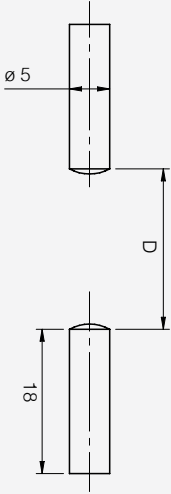
product	main features	dimensions (mm)																		
	<table border="1"> <tr> <td>∅ optical fibre core</td> <td>CV/CB1-**-</td> </tr> <tr> <td>distance (with SSF)</td> <td>25 mm</td> </tr> <tr> <td>distance (with FS1)</td> <td>25 mm</td> </tr> <tr> <td>distance (with FX3)</td> <td>30 mm</td> </tr> <tr> <td>distance (with FX4)</td> <td>30 mm</td> </tr> <tr> <td>thread</td> <td>M4</td> </tr> <tr> <td>protection degree</td> <td>IP67 (EN60529)</td> </tr> <tr> <td>temperature range</td> <td>-40°C.....+125°C</td> </tr> <tr> <td>materials</td> <td>glass, nickel-plated brass</td> </tr> </table>	∅ optical fibre core	CV/CB1-**-	distance (with SSF)	25 mm	distance (with FS1)	25 mm	distance (with FX3)	30 mm	distance (with FX4)	30 mm	thread	M4	protection degree	IP67 (EN60529)	temperature range	-40°C.....+125°C	materials	glass, nickel-plated brass	
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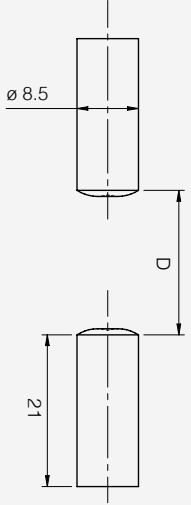
focusing device (diffuse reflection) AF/FC2 model

product	main features	dimensions (mm)																		
	<table border="1"> <tr> <td>Ø optical fibre core</td> <td>CV/CB1-**</td> </tr> <tr> <td>distance (with SSF)</td> <td>45 mm</td> </tr> <tr> <td>distance (with FS1)</td> <td>45 mm</td> </tr> <tr> <td>distance (with FX3)</td> <td>50 mm</td> </tr> <tr> <td>distance (with FX4)</td> <td>50 mm</td> </tr> <tr> <td>thread</td> <td>M4</td> </tr> <tr> <td>protection degree</td> <td>IP67 (EN60529)</td> </tr> <tr> <td>temperature range</td> <td>-40°C....+125°C</td> </tr> <tr> <td>materials</td> <td>glass, nickel-plated brass</td> </tr> </table>	Ø optical fibre core	CV/CB1-**	distance (with SSF)	45 mm	distance (with FS1)	45 mm	distance (with FX3)	50 mm	distance (with FX4)	50 mm	thread	M4	protection degree	IP67 (EN60529)	temperature range	-40°C....+125°C	materials	glass, nickel-plated brass	
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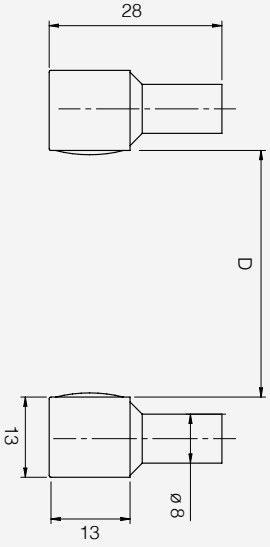
additional lens (through-beam) AF/ER1 model

product	main features	dimensions (mm)																		
	<table border="1"> <tr> <td>Ø optical fibre core</td> <td>CV/RB6-**</td> </tr> <tr> <td>distance (with SSF)</td> <td>1,000 mm</td> </tr> <tr> <td>distance (with FS1)</td> <td>1,000 mm</td> </tr> <tr> <td>distance (with FX3)</td> <td>4,000 mm</td> </tr> <tr> <td>distance (with FX4)</td> <td>6,000 mm</td> </tr> <tr> <td>thread</td> <td>M4</td> </tr> <tr> <td>protection degree</td> <td>IP67 (EN60529)</td> </tr> <tr> <td>temperature range</td> <td>-40°C....+70°C</td> </tr> <tr> <td>materials</td> <td>glass, nickel-plated brass</td> </tr> </table>	Ø optical fibre core	CV/RB6-**	distance (with SSF)	1,000 mm	distance (with FS1)	1,000 mm	distance (with FX3)	4,000 mm	distance (with FX4)	6,000 mm	thread	M4	protection degree	IP67 (EN60529)	temperature range	-40°C....+70°C	materials	glass, nickel-plated brass	
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distance (with FX4)	6,000 mm																			
thread	M4																			
protection degree	IP67 (EN60529)																			
temperature range	-40°C....+70°C																			
materials	glass, nickel-plated brass																			

additional lens (through-beam) AF/ER2 model

product	main features	dimensions (mm)																		
	<table border="1"> <tr> <td>∅ optical fibre core</td> <td>CV/RB6-**</td> </tr> <tr> <td>distance (with SSF)</td> <td>3,000 mm</td> </tr> <tr> <td>distance (with FS1)</td> <td>3,000 mm</td> </tr> <tr> <td>distance (with FX3)</td> <td>8,000 mm</td> </tr> <tr> <td>distance (with FX4)</td> <td>10,000 mm</td> </tr> <tr> <td>thread</td> <td>M4</td> </tr> <tr> <td>protection degree</td> <td>IP67 (EN60529)</td> </tr> <tr> <td>temperature range</td> <td>-40°C....+125°C</td> </tr> <tr> <td>materials</td> <td>glass, nickel-plated brass</td> </tr> </table>	∅ optical fibre core	CV/RB6-**	distance (with SSF)	3,000 mm	distance (with FS1)	3,000 mm	distance (with FX3)	8,000 mm	distance (with FX4)	10,000 mm	thread	M4	protection degree	IP67 (EN60529)	temperature range	-40°C....+125°C	materials	glass, nickel-plated brass	
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additional lens (through-beam) AF/ER3 model

product	main features	dimensions (mm)																		
	<table border="1"> <tr> <td>∅ optical fibre core</td> <td>CV/RB6-**</td> </tr> <tr> <td>distance (with SSF)</td> <td>3,000 mm</td> </tr> <tr> <td>distance (with FS1)</td> <td>3,000 mm</td> </tr> <tr> <td>distance (with FX3)</td> <td>8,000 mm</td> </tr> <tr> <td>distance (with FX4)</td> <td>10,000 mm</td> </tr> <tr> <td>thread</td> <td>M4</td> </tr> <tr> <td>protection degree</td> <td>IP67 (EN60529)</td> </tr> <tr> <td>temperature range</td> <td>-40°C....+70°C</td> </tr> <tr> <td>materials</td> <td>glass, nickel-plated brass</td> </tr> </table>	∅ optical fibre core	CV/RB6-**	distance (with SSF)	3,000 mm	distance (with FS1)	3,000 mm	distance (with FX3)	8,000 mm	distance (with FX4)	10,000 mm	thread	M4	protection degree	IP67 (EN60529)	temperature range	-40°C....+70°C	materials	glass, nickel-plated brass	
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