



# 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)	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-**			
														M4 + sleeve		CV/CB3-**
P/R	90 mm	90 mm	600 mm	900 mm	410	200	800				M4		CV/RB4-**			
											M4		CV/RB6-**			


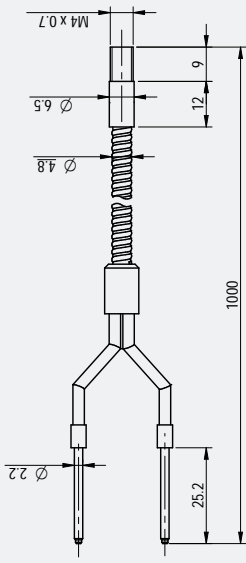
## ordering system

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			
											M4		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.


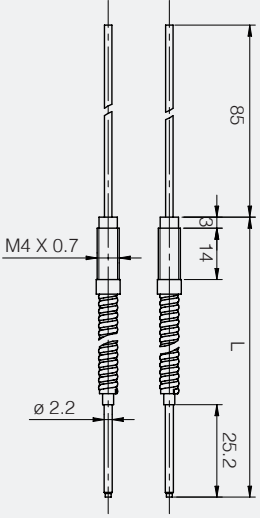
diffuse reflection (high temperature) CV/CB1-\*\* model

product	main features		dimensions (mm)
	Ø 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	
	distance (with F1)	-	
	distance (with F2)	70 mm	
	distance (with F6)	-	
	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		


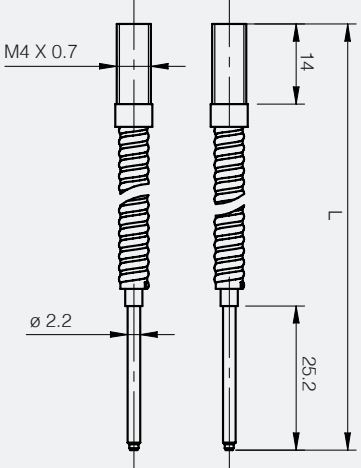
diffuse reflection with sleeve (high temperature) CV/CB3-\*\* model

product	main features		dimensions (mm)
	Ø 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	
	distance (with F1)	-	
	distance (with F2)	70 mm	
	distance (with F6)	-	
	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 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	
	distance (with F1)	410 mm	
	distance (with F2)	200 mm	
	distance (with F6)	800 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	
	distance (with F1)	410 mm	
	distance (with F2)	200 mm	
	distance (with F6)	800 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, each representing a line of text for notes.



# CV series

Accessories for CV optical fibres



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						∅ 8.5 mm	CV/RB6-**	AF/ER2
				14,000 mm	16,000 mm						13 x 13 mm	CV/RB6-**	AF/ER3


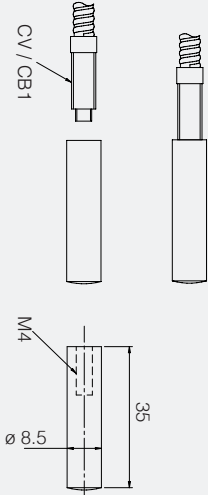
### collimator lenses AF/FC1 model

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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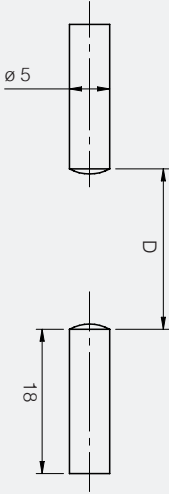
CV




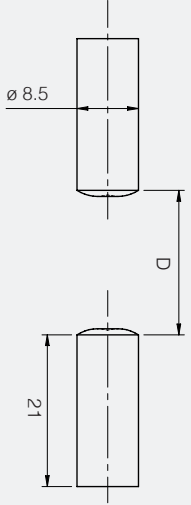
focusing device (diffuse reflection) AF/FC2 model

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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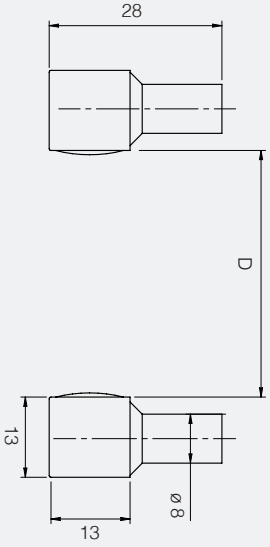
additional lens (through-beam) AF/ER1 model

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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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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thread	M4																			
protection degree	IP67 (EN60529)																			
temperature range	-40°C....+125°C																			
materials	glass, nickel-plated brass																			

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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