CF series
Plastic optical fibres

features

- **Wide range of models: ultra slim for small object, long distances, spiral tube for handling**
- **Wide range of flexible fibre heads (with sleeve)**
- **Wide range of cutting fibre units**
- **P67 protection degree**
- **SSF – FS1 – FX3 – FX4 series connectable**
- **Approvals: CE**

web contents

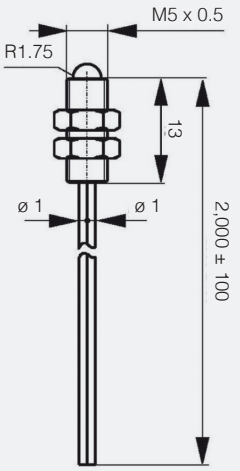
- **Application notes**
- **Photos**
- **Catalogue / Manuals**

ordering system

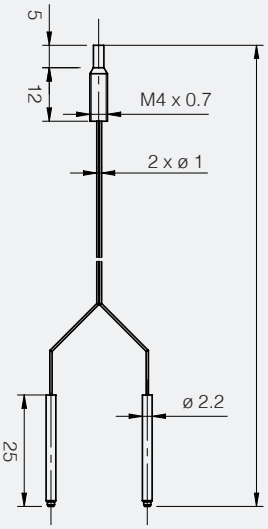
models[1]	SSF (EX.G.=1)	FS1 (EX.G.=1)	FX3 (EX.G.=1)	FX4 (EX.G.=1)	F1R	FY2	FY3	type	fibre core	free-cut	length [2]	head shape	lenses
CF/CA1-20	60 mm	60 mm	140 mm	140 mm	-	50 mm	100 mm	scanner	0.5 mm	●	2 m	M5	●
CF/CA2-**	15 mm	15 mm	70 mm	110 mm	40 mm	20 mm	40 mm	scanner	0.5 mm	-	0.5..1 m	M4	-
CF/CA4-**	15 mm	15 mm	60 mm	80 mm	40 mm	20 mm	40 mm	scanner	0.5 mm	-	0.5..1 m	M4 sleeve	-
CF/RA4-**	30 mm	30 mm	150 mm	250 mm	100 mm	110 mm	125 mm	P/R	0.5 mm	-	0.5..1 m	M4 sleeve	-
CF/RA7-**	30 mm	30 mm	150 mm	250 mm	100 mm	60 mm	140 mm	P/R	0.5 mm	-	0.5..1 m	M6	-
CF/CB1-**	50 mm	50 mm	200 mm	300 mm	150 mm	110 mm	150 mm	scanner	1 mm	●	1 2 m	M6	-
CF/CB3-**	50 mm	50 mm	200 mm	300 mm	150 mm	110 mm	150 mm	scanner	1 mm	●	1 2 m	M6 sleeve	-
CF/RB3-20	120 mm	120 mm	700 mm	700 mm	150 mm	250 mm	280 mm	P/R	1 mm	●	2 m	M4	-
CF/RB4-**	120 mm	120 mm	600 mm	800 mm	410 mm	400 mm	420 mm	P/R	1 mm	●	1..2 m	M4 sleeve	-
CF/RB6-**	120 mm	120 mm	600 mm	800 mm	410 mm	400 mm	350 mm	P/R	1 mm	●	1..2 m	M4	-
CF/RB9-**	1200 mm	1200 mm	8000 mm	1000 mm	4000 mm	3000 mm	3800 mm	P/R	1 mm	●	1..2 m	ø 6	●
CF/RBA-**	1200 mm	1200 mm	8000 mm	1000 mm	4000 mm	3000 mm	3800 mm	P/R	1 mm	●	1..2 m	M7	●
CF/CC1-20	15 mm	15 mm	70 mm	110 mm	40 mm	60 mm	60 mm	scanner	1 mm	●	2 m	M6	-
CF/RC6-20	100 mm	100 mm	500 mm	500 mm	350 mm	200 mm	230 mm	P/R	1 mm	●	2 m	M4	-
CF/RC9-20	1000 mm	1000 mm	6000 mm	8000 mm	2200 mm	2500 mm	3000 mm	P/R	1 mm	●	2 m	ø 6	●
CF/RCA-20	1000 mm	1000 mm	6000 mm	8000 mm	2200 mm	2500 mm	3000 mm	P/R	1 mm	●	2 m	M7	●

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

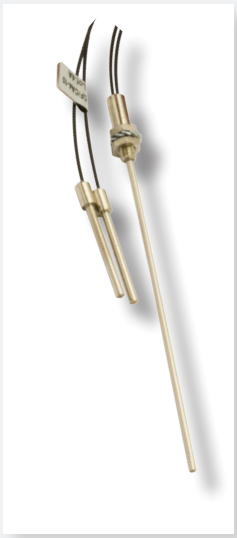
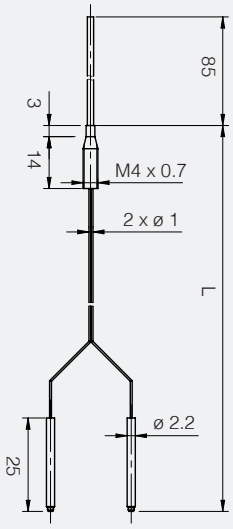
diffuse reflection with narrow beam CF/CA1-20 model

product	main features		dimensions (mm)
	Ø optical fibre core	0.5 mm	
	distance (with SSF)	60 mm	
	distance (with FS1)	60 mm	
	distance (with FX3)	140 mm	
	distance (with FX4)	140 mm	
	distance (with F1R)	-	
	distance (with FY2)	50 mm	
	distance (with FY3)	100 mm	
	fibre length (L)	2 m	
	free-cut	●	
	head shape	M5	
	protection degree	IP67 (EN60529)	
	temperature range	-25°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	INOX	
	accessories available	AF/1A2	

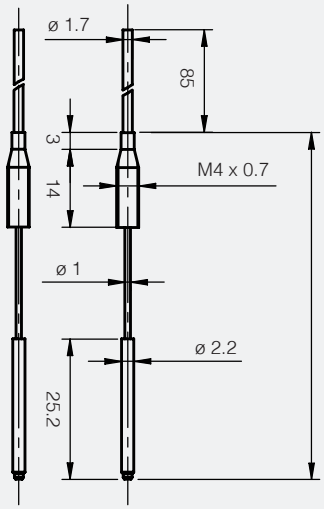
diffuse reflection CF/CA2-** model

product	main features		dimensions (mm)
	Ø optical fibre core	0.5 mm	
	distance (with SSF)	15 mm	
	distance (with FS1)	15 mm	
	distance (with FX3)	70 mm	
	distance (with FX4)	110 mm	
	distance (with F1R)	40 mm	
	distance (with FY2)	20 mm	
	distance (with FY3)	40 mm	
	fibre length (L)	0,5...1 m	
	free-cut	-	
	head shape	M4	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	AF/1A2	

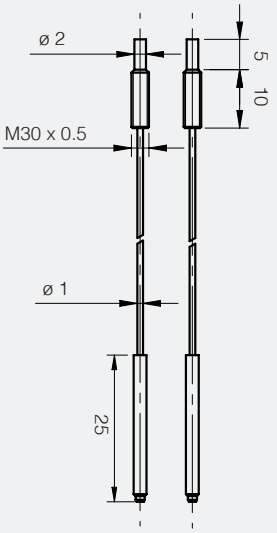
diffuse reflection with sleeve CF/CA4-** model

product	main features		dimensions (mm)
	Ø optical fibre core	0.5 mm	
	distance (with SSF)	15 mm	
	distance (with FS1)	15 mm	
	distance (with FX3)	60 mm	
	distance (with FX4)	80 mm	
	distance (with F1R)	40 mm	
	distance (with FY2)	20 mm	
	distance (with FY3)	40 mm	
	fibre length (L)	0.5...1 m	
	free-cut	-	
	head shape	M4 with sleeve	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+55°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	AF/1A2	

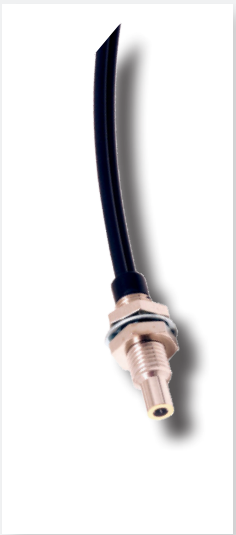
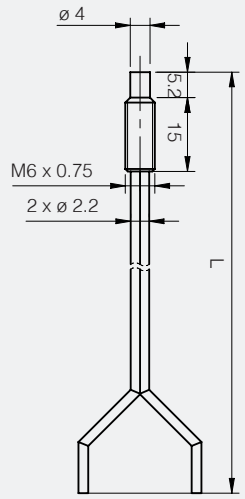
through-beam with sleeve CF/RA4-** model

product	main features		dimensions (mm)
	Ø optical fibre core	0.5 mm	
	distance (with SSF)	30 mm	
	distance (with FS1)	30 mm	
	distance (with FX3)	150 mm	
	distance (with FX4)	250 mm	
	distance (with F1R)	100 mm	
	distance (with FY2)	110 mm	
	distance (with FY3)	125 mm	
	fibre length (L)	0.5...1 m	
	free-cut	-	
	head shape	M4 with sleeve	
	protection degree	IP67 (EN60529)	
	temperature range	40°C....+55°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	AF/1A2	

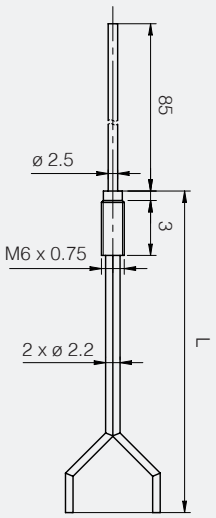
through-beam CF/RA7-** model

product	main features		dimensions (mm)
	Ø optical fibre core	0.5 mm	
	distance (with SSF)	30 mm	
	distance (with FS1)	30 mm	
	distance (with FX3)	150 mm	
	distance (with FX4)	250 mm	
	distance (with F1R)	100 mm	
	distance (with FY2)	60 mm	
	distance (with FY3)	140 mm	
	fibre length (L)	0.5...1 m	
	free-cut	-	
	head shape	M3	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	AF/1A2	

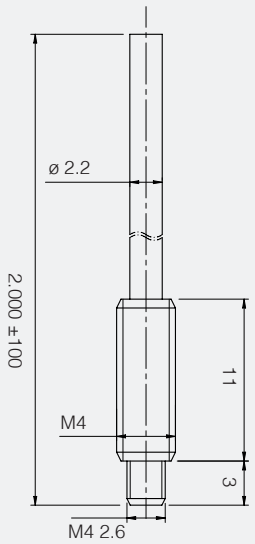
diffuse reflection CF/CB1-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm	
	distance (with SSF)	50 mm	
	distance (with FS1)	50 mm	
	distance (with FX3)	200 mm	
	distance (with FX4)	300 mm	
	distance (with F1R)	150 mm	
	distance (with FY2)	110 mm	
	distance (with FY3)	150 mm	
	fibre length (L)	1...2 m	
	free-cut	●	
	head shape	M6	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

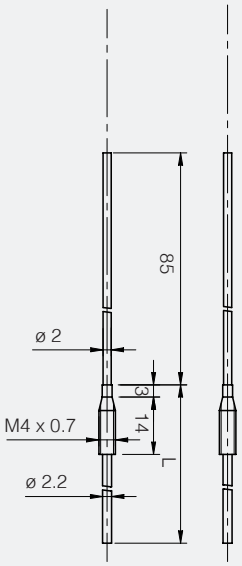
diffuse reflection with sleeve CF/CB3-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm	
	distance (with SSF)	50 mm	
	distance (with FS1)	50 mm	
	distance (with FX3)	200 mm	
	distance (with FX4)	300 mm	
	distance (with F1R)	150 mm	
	distance (with FY2)	110 mm	
	distance (with FY3)	150 mm	
	fibre length (L)	1...2 m	
	free-cut	●	
	head shape	M6 with sleeve	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+55°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

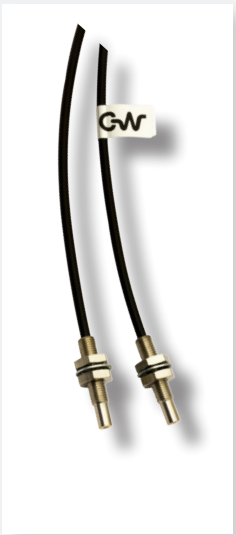
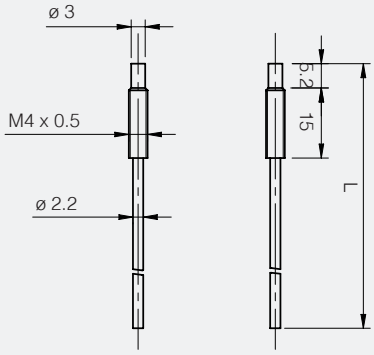
diffuse reflection with sleeve CF/RB3-20 model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm	
	distance (with SSF)	120 mm	
	distance (with FS1)	120 mm	
	distance (with FX3)	700 mm	
	distance (with FX4)	700 mm	
	distance (with F1R)	150 mm	
	distance (with FY2)	250 mm	
	distance (with FY3)	280 mm	
	fibre length (L)	2 m	
	free-cut	-	
	head shape	M4	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+55°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	AF/ER9	

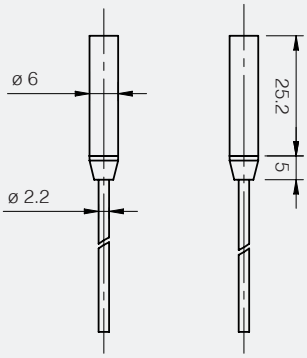
through-beam with sleeve CF/RB4-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm	
	distance (with SSF)	120 mm	
	distance (with FS1)	120 mm	
	distance (with FX3)	600 mm	
	distance (with FX4)	900 mm	
	distance (with F1R)	410 mm	
	distance (with FY2)	400 mm	
	distance (with FY3)	420 mm	
	fibre length (L)	1...2 m	
	free-cut	●	
	head shape	M4 with sleeve	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+55°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

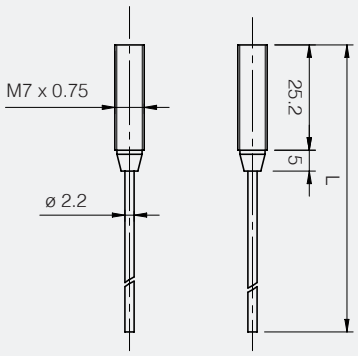
through-beam CF/RB6-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm	
	distance (with SSF)	120 mm	
	distance (with FS1)	120 mm	
	distance (with FX3)	600 mm	
	distance (with FX4)	900 mm	
	distance (with F1R)	410 mm	
	distance (with FY2)	400 mm	
	distance (with FY3)	350 mm	
	fibre length (L)	1...2 m	
	free-cut	-	
	head shape	M4	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

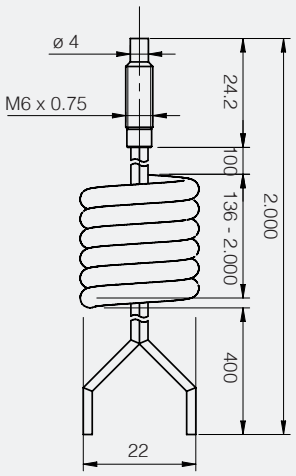
through-beam with lenses CF/RB9-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm	
	distance (with SSF)	1,200 mm	
	distance (with FS1)	1,200 mm	
	distance (with FX3)	8,000 mm	
	distance (with FX4)	10,000 mm	
	distance (with F1R)	4,000 mm	
	distance (with FY2)	3,000 mm	
	distance (with FY3)	3,800 mm	
	fibre length (L)	1...2 m	
	free-cut	●	
	head shape	Ø 6 with lenses	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

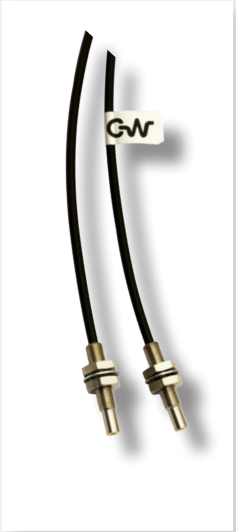
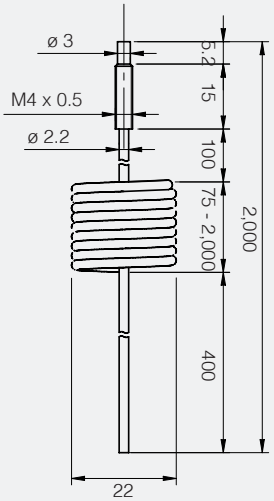
through-beam with lenses CF/RBA-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm	
	distance (with SSF)	1,200 mm	
	distance (with FS1)	1,200 mm	
	distance (with FX3)	8,000 mm	
	distance (with FX4)	10,000 mm	
	distance (with F1R)	4,000 mm	
	distance (with FY2)	3,000 mm	
	distance (with FY3)	3,800 mm	
	fibre length (L)	1...2 m	
	free-cut	●	
	head shape	M7 ewith lenses	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	ST 28	

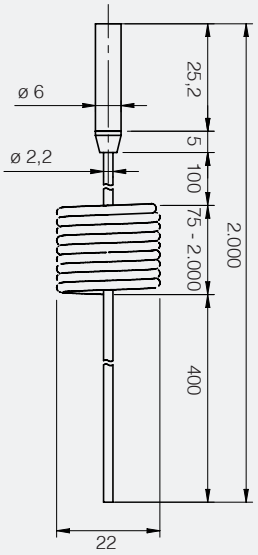
diffuse reflection CF/CC1-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm spiral tube	
	distance (with SSF)	15 mm	
	distance (with FS1)	15 mm	
	distance (with FX3)	70 mm	
	distance (with FX4)	100 mm	
	distance (with F1R)	50 mm	
	distance (with FY2)	60 mm	
	distance (with FY3)	60 mm	
	fibre length (L)	2 m	
	free-cut	-	
	head shape	M6	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

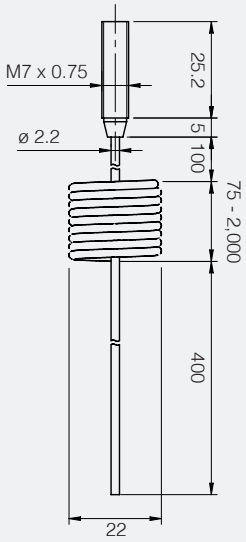
through-beam CF/RC6-** model

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm spiral tube	
	distance (with SSF)	100mm	
	distance (with FS1)	100 mm	
	distance (with FX3)	500 mm	
	distance (with FX4)	500 mm	
	distance (with F1R)	350 mm	
	distance (with FY2)	200 mm	
	distance (with FY3)	230 mm	
	fibre length (L)	2 m	
	free-cut	-	
	head shape	M4	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

barriera con lenti modello CF/RC9-**

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm spiral tube	
	distance (with SSF)	1,000 mm	
	distance (with FS1)	1,000 mm	
	distance (with FX3)	6,000 mm	
	distance (with FX4)	8,000 mm	
	distance (with F1R)	2,200 mm	
	distance (with FY2)	2,500 mm	
	distance (with FY3)	3,000 mm	
	fibre length (L)	2 m	
	free-cut	-	
	head shape	Ø 6 with lenses	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	-	

barriera con lenti modello CF/RCA-**

product	main features		dimensions (mm)
	Ø optical fibre core	1 mm spiral tube	
	distance (with SSF)	1,000 mm	
	distance (with FS1)	1,000 mm	
	distance (with FX3)	6,000 mm	
	distance (with FX4)	8,000 mm	
	distance (with F1R)	2,200 mm	
	distance (with FY2)	2,500 mm	
	distance (with FY3)	3,000 mm	
	fibre length (L)	2 m	
	free-cut	-	
	head shape	M7 with lenses	
	protection degree	IP67 (EN60529)	
	temperature range	-40°C....+70°C	
	optical fibre materials	PE, plastic	
	head materials	nickel-plated brass	
	accessories available	ST 28	