

SERIE	CF
Plastic optical fibre for several applications	
<ul style="list-style-type: none"> Wide range of models: <ul style="list-style-type: none"> 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 IP67 protection degree FS1 and FX2 serie connectable 	

Spiral tube for handling
 spiral tube for applications on moving machine's parts.

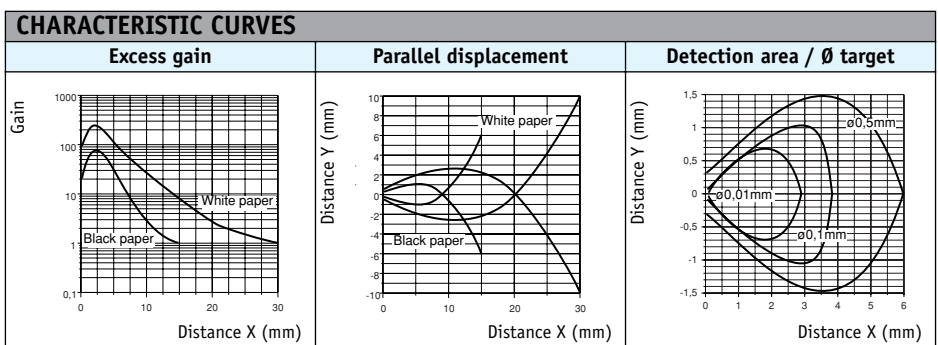
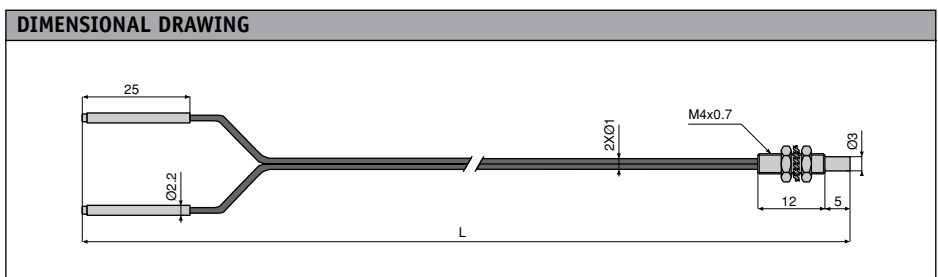
Long distance free-cut for detection also on long distances


Ultra slim for precise detection
 ultra slim fibres (Ø 0.5mm) for small objects detections.

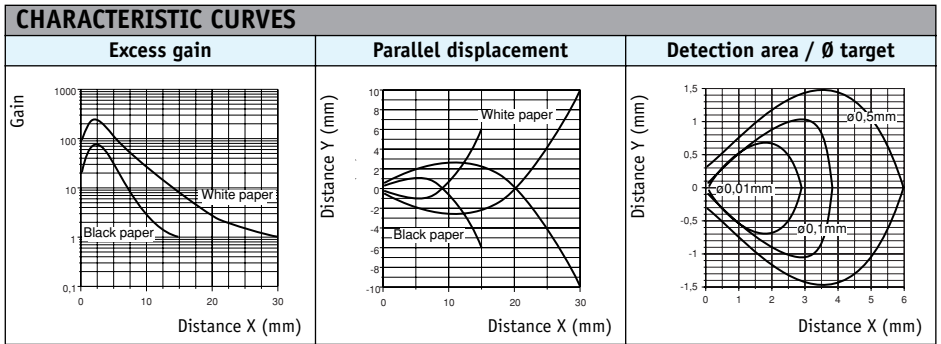
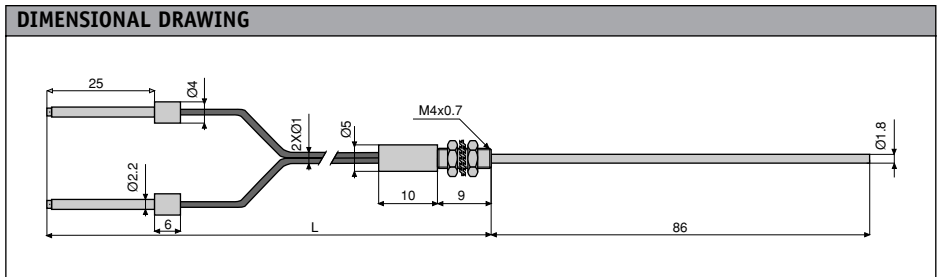
ORDERING SYSTEM								
	model ^{(1) (3)}	type	with FS1	with FX2	Ø fibre (core)	free-cut	fibre length ⁽²⁾	head shape (mm)
Ultra-slim	CF/CA2-**	diffuse reflection	15 mm	20 mm	0,5mm	no	0,5-1 m	M4
	CF/CA4-**	diffuse reflection	15 mm	20 mm	0,5mm	no	0,5-1 m	M4 with sleeve
	CF/RA4-**	through-beam	30 mm	60 mm	0,5mm	no	0,5-1 m	M4 with sleeve
	CF/RA7-**	through-beam	30 mm	60 mm	0,5mm	no	0,5-1 m	M3
Long Distances	CF/CB1-**	diffuse reflection	50 mm	65 mm	1mm	yes	1-2 m	M6
	CF/CB3-**	diffuse reflection	50 mm	65 mm	1mm	yes	1-2 m	M6 with sleeve
	CF/RB4-**	through-beam	120 mm	200 mm	1mm	yes	1-2 m	M4 with sleeve
	CF/RB6-**	through-beam	120 mm	200 mm	1mm	yes	1-2 m	M4
	CF/RB9-**	through-beam	1200 mm	2000 mm	1mm	yes	1-2 m	Ø6 with lens
Spiral tube	CF/RBA-**	through-beam	1200 mm	2000 mm	1mm	yes	1-2 m	M7 with lens
	CF/CC1-20	diffuse reflection	15 mm	35 mm	1mm	no	2 m	M6
	CF/RC6-20	through-beam	100 mm	160 mm	1mm	no	2 m	M4
	CF/RC9-20	through-beam	1000 mm	1500 mm	1mm	no	2 m	Ø6 with lens
	CF/RCA-20	through-beam	1000 mm	1500 mm	1mm	no	2 m	M7 with lens

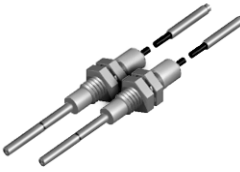
(1) The last two bits of the code show the fiber length (in dm) - (2) Standard length. Special lengths are available on request.
 (3) The following characteristic curves refer only to FX2 serie.

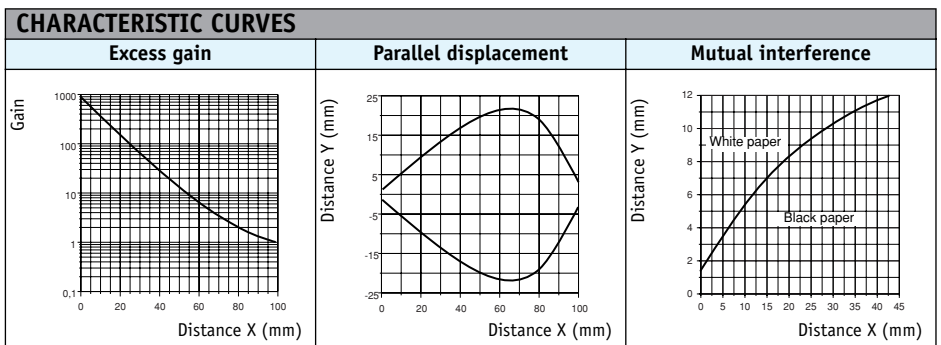
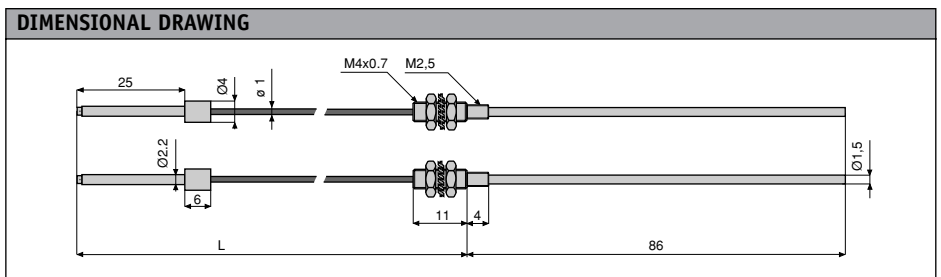
MODEL	CF/CA2-**
diffuse reflection	
Optical fibre core Ø	0,5 mm
Distance (with FS1)	15 mm
Distance (with FX2)	20 mm
Fibre length (L)	0,5 - 1m
Free-cut	no
Head shape	M4
Protection degree	IEC IP67
Temperature range	-40° ... +70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none




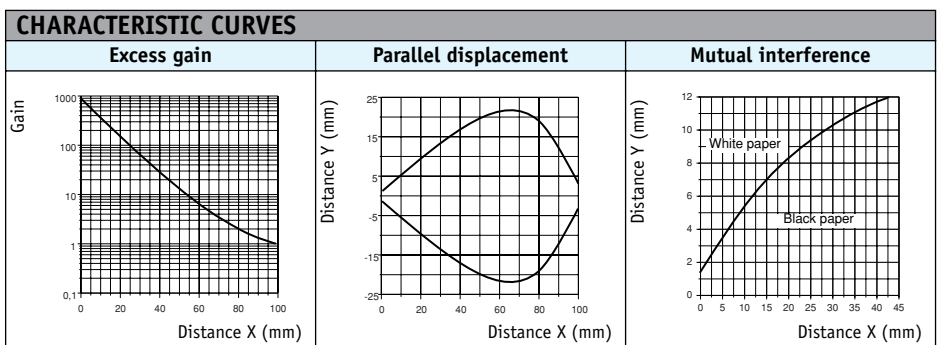
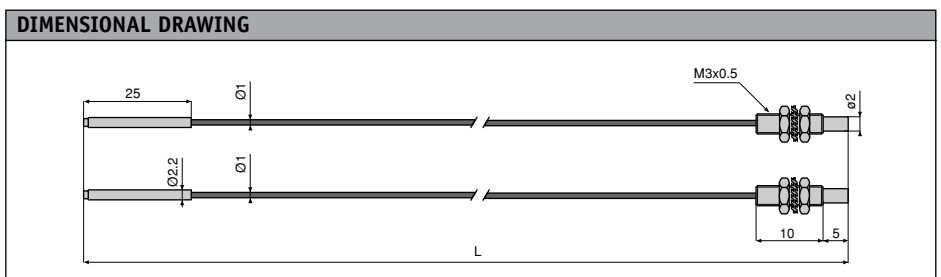
MODEL	CF/CA4-**
diffuse reflection with sleeve	
	
Optical fibre core \varnothing	0,5 mm
Distance (with FS1)	15 mm
Distance (with FX2)	20 mm
Fibre length (L)	0,5 - 1 m
Free-cut	no
Head shape	M4 with sleeve
Protection degree	IEC IP67
Temperature range	-40°...+55°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none

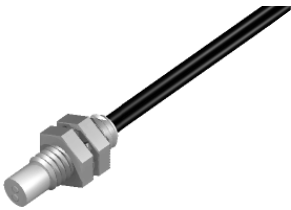


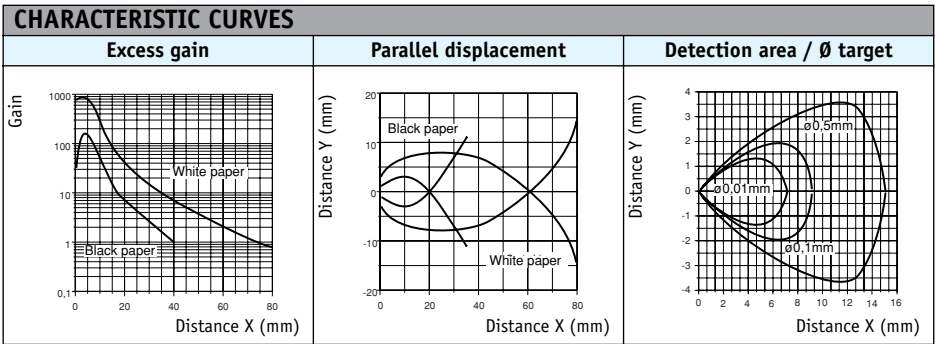
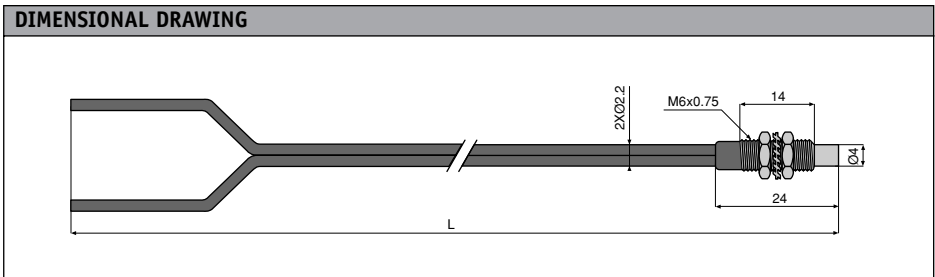
MODEL	CF/RA4-**
through-beam with sleeve	
	
Optical fibre core \varnothing	0,5 mm
Distance (with FS1)	30 mm
Distance (with FX2)	60 mm
Fibre length (L)	0,5 - 1 m
Free-cut	no
Head shape	M4 with sleeve
Protection degree	IEC IP67
Temperature range	-40°...+55°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none




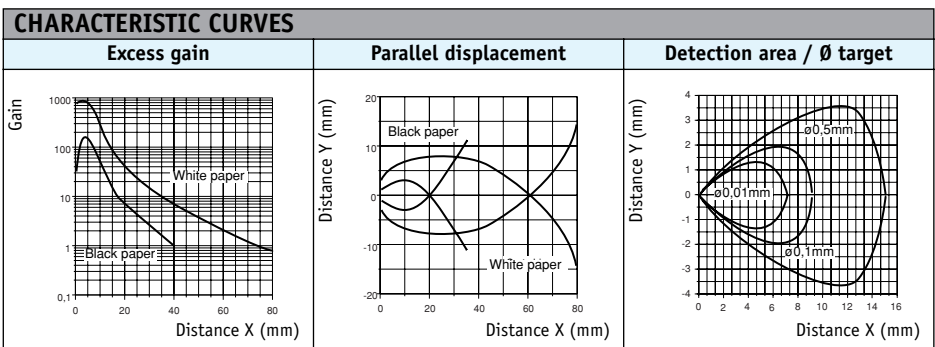
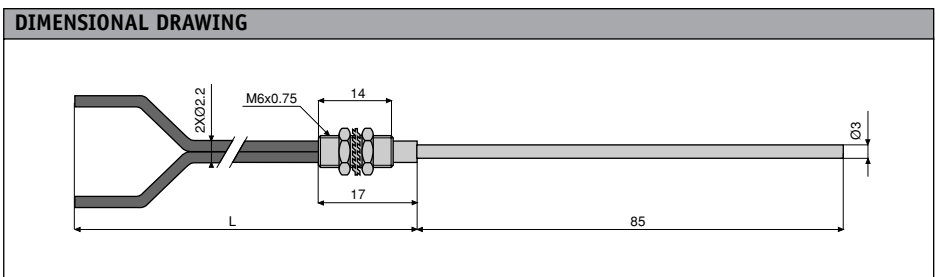
MODEL	CF/RA7-**
through-beam	
	
Optical fibre core \varnothing	0,5 mm
Distance (with FS1)	30 mm
Distance (with FX2)	60 mm
Fibre length (L)	0,5 - 1 m
Free-cut	no
Head shape	M3
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none




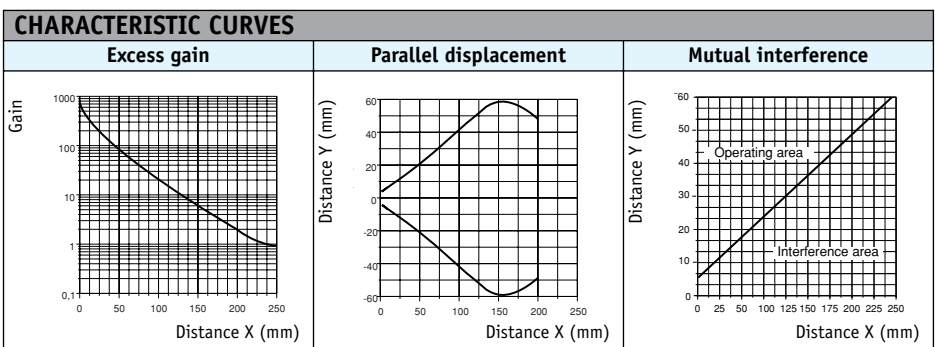
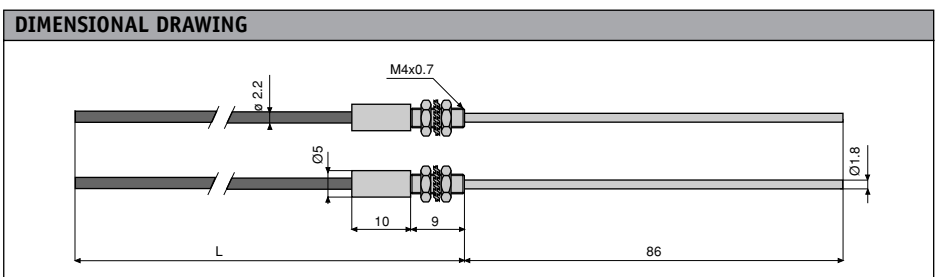
MODEL	CF/CB1-**
diffuse reflection	
	
Optical fibre core Ø	1 mm
Distance (with FS1)	50 mm
Distance (with FX2)	65 mm
Fibre length (L)	1 - 2 m
Free-cut	yes
Head shape	M6
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none

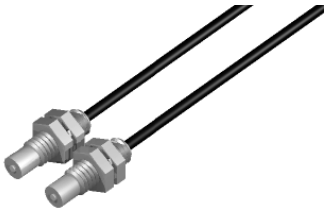


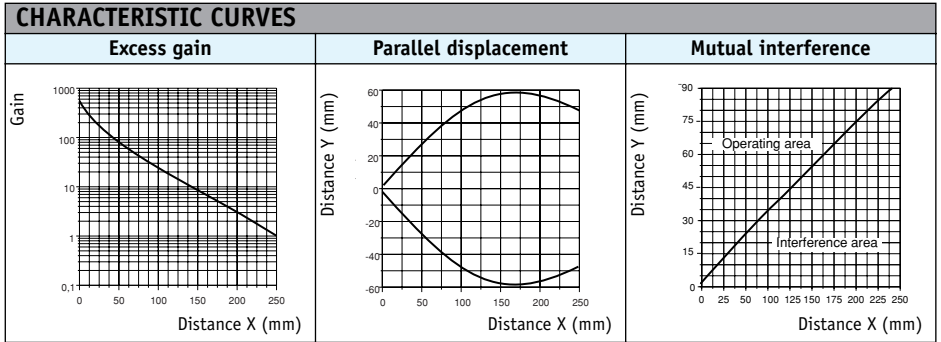
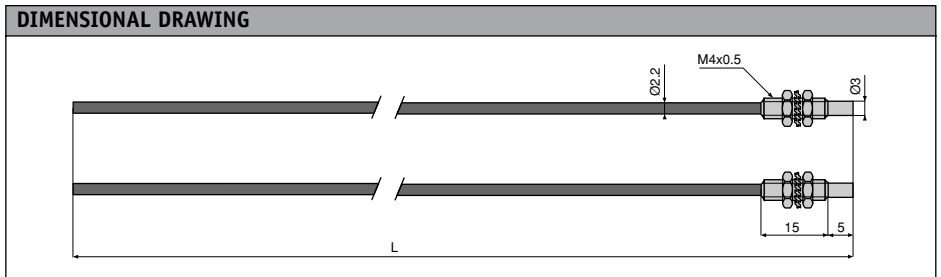
MODEL	CF/CB3-**
diffuse reflection with sleeve	
	
Optical fibre core Ø	1 mm
Distance (with FS1)	50 mm
Distance (with FX2)	65 mm
Fibre length (L)	1 - 2 m
Free-cut	yes
Head shape	M6 with sleeve
Protection degree	IEC IP67
Temperature range	-40°...+55°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none

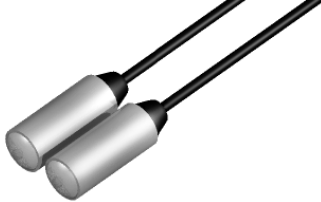


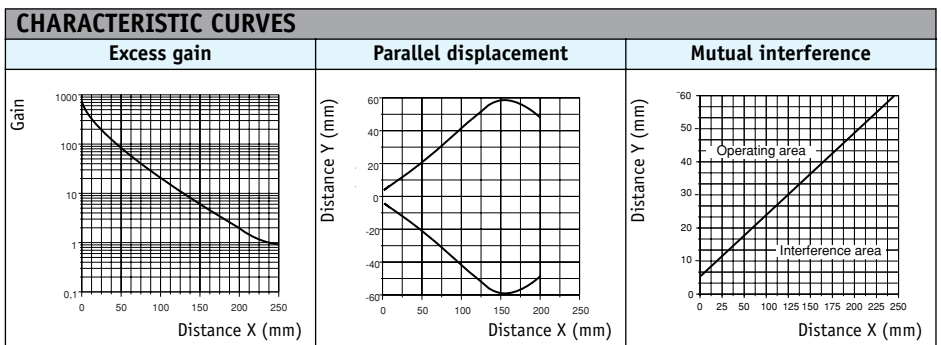
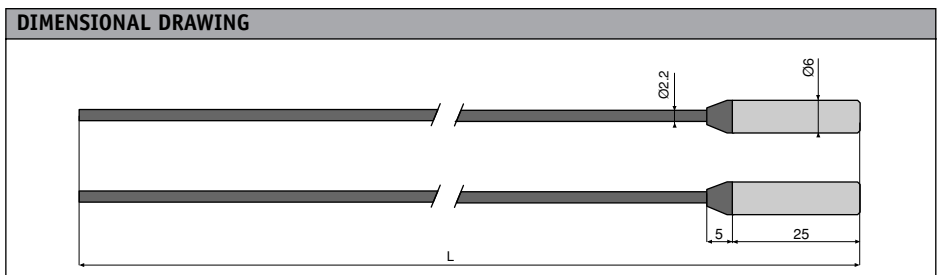
MODEL	CF/RB4-**
through-beam with sleeve	
	
Optical fibre core Ø	1 mm
Distance (with FS1)	120 mm
Distance (with FX2)	200 mm
Fibre length (L)	1 - 2 m
Free-cut	yes
Head shape	M4 with sleeve
Protection degree	IEC IP67
Temperature range	-40°...+55°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none

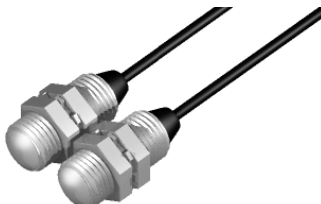


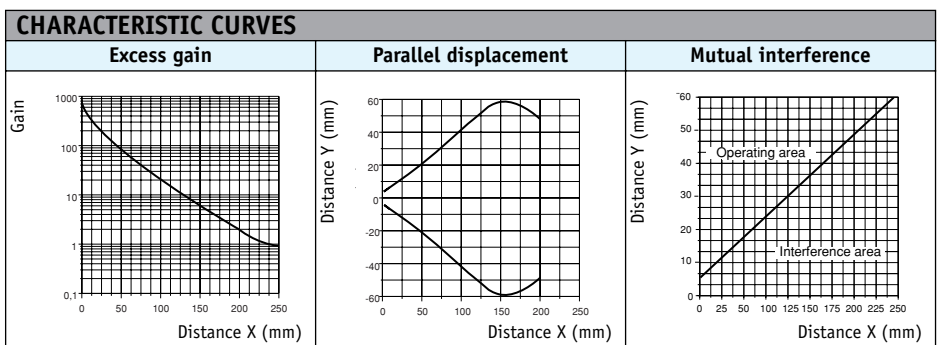
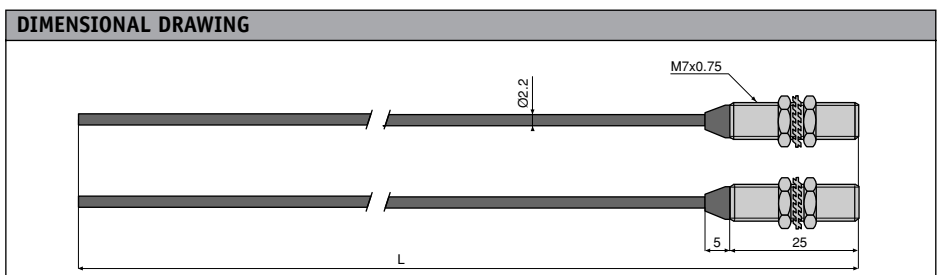
MODEL	CF/RB6-**
through-beam	
	
Optical fibre core \varnothing	1 mm
Distance (with FS1)	120 mm
Distance (with FX2)	200 mm
Fibre length (L)	1 - 2 m
Free-cut	yes
Head shape	M4
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none




MODEL	CF/RB9-**
through-beam with lenses	
	
Optical fibre core \varnothing	1 mm
Distance (with FS1)	1200 mm
Distance (with FX2)	2000 mm
Fibre length (L)	1 - 2 m
Free-cut	yes
Head shape	$\varnothing 6$ with lens
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none

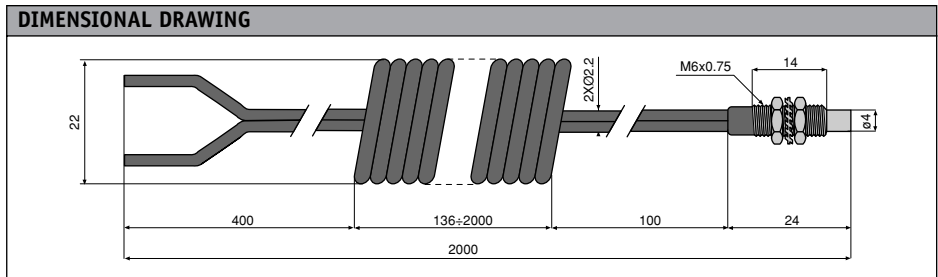


MODEL	CF/RBA-**
through-beam with lenses	
	
Optical fibre core \varnothing	1 mm
Distance (with FS1)	1200 mm
Distance (with FX2)	2000 mm
Fibre length (L)	1 - 2 m
Free-cut	yes
Head shape	M7 with lens
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	ST 28

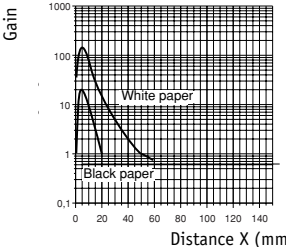
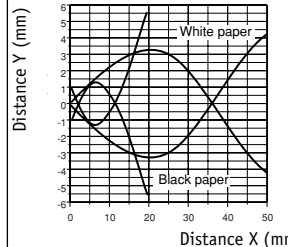
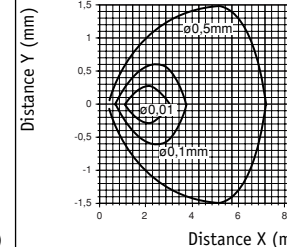





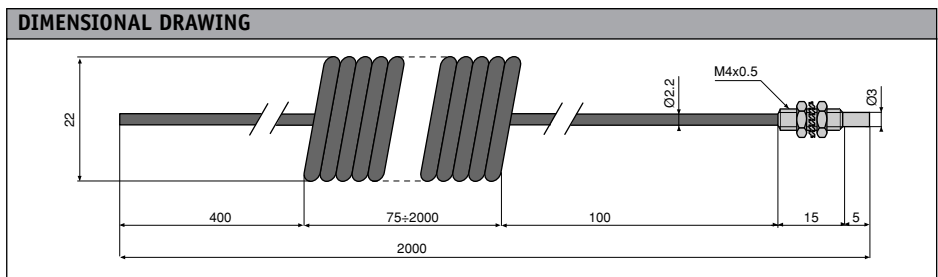
MODEL	CF/CC1-**
diffuse reflection	
	
Optical fibre core Ø	1 mm spiral tube
Distance (with FS1)	15 mm
Distance (with FX2)	35 mm
Fibre length (L)	2 m
Free-cut	no
Head shape	M6
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none



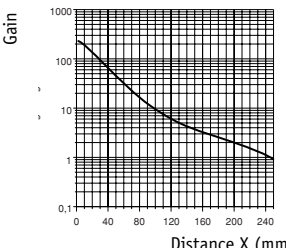
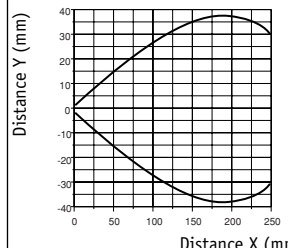
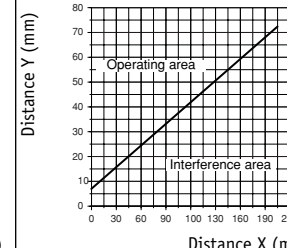
CHARACTERISTIC CURVES


Excess gain	Parallel displacement	Detection area / Ø target
		

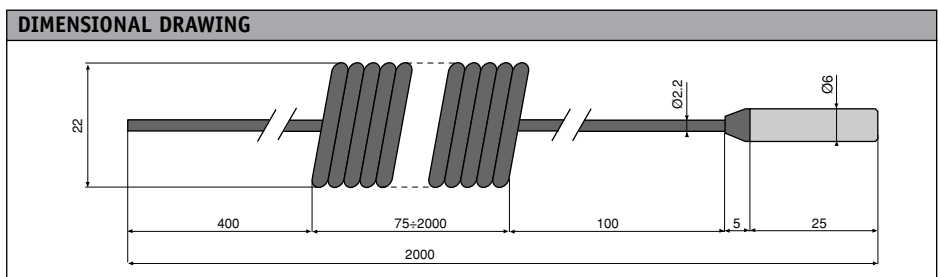
MODEL	CF/RC6-**
through-beam	
	
Optical fibre core Ø	1 mm spiral tube
Distance (with FS1)	100 mm
Distance (with FX2)	160 mm
Fibre length (L)	2 m
Free-cut	no
Head shape	M4
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none



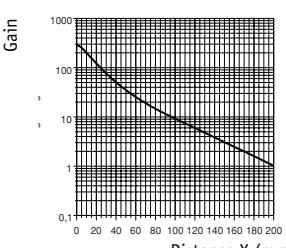
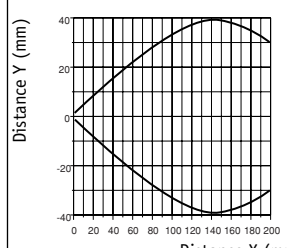
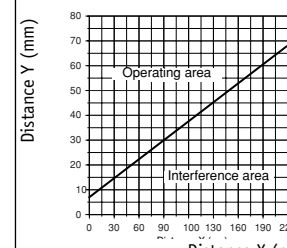
CHARACTERISTIC CURVES

Excess gain	Parallel displacement	Mutual interference
		

MODEL	CF/RC9-**
through-beam with lenses	
	
Optical fibre core Ø	1 mm spiral tube
Distance (with FS1)	1000 mm
Distance (with FX2)	1500 mm
Fibre length (L)	2 m
Free-cut	no
Head shape	Ø6 with lens
Protection degree	IEC IP67
Temperature range	-40°...+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	none



CHARACTERISTIC CURVES

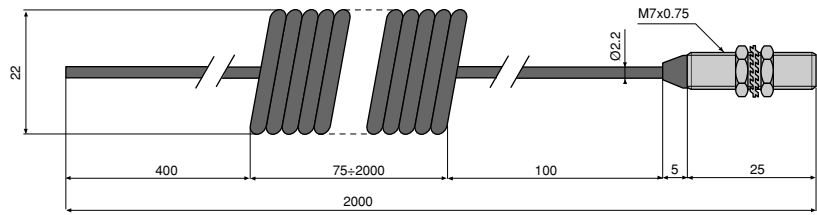
Excess gain	Parallel displacement	Mutual interference
		

MODEL CF/RCA-**

through-beam with lenses



DIMENSIONAL DRAWING



Optical fibre core Ø	1 mm spiral tube
Distance (with FS1)	1000 mm
Distance (with FX2)	1500 mm
Fibre length (L)	2 m
Free-cut	no
Head shape	M7 with lens
Protection degree	IEC IP67
Temperature range	-40°....+70°C
Optical fibre materials	PE, PMMA
Head materials	nickel-plated brass
Accessories available	ST 28

CHARACTERISTIC CURVES

