

**FV**

- Sensing distance : 80 mm in reflective mode  
Sensing distance : 200 mm in through-beam mode
- Usable amplifiers : AFV 954 R  
AFV 946 S  
AFV 966 S



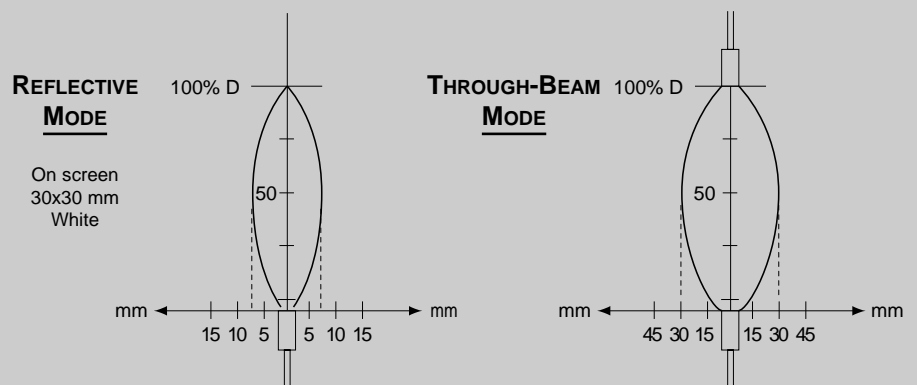
**Description :**

- Glass fibre 400 strands per mm<sup>2</sup>
- Useful diameter of the fibre 1,2 mm
- Sensing distances given for a fibre length up to 1 metre

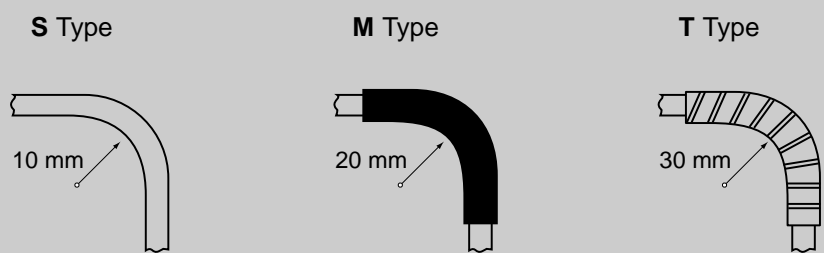
**Applications :**

- Detection in a high-temperature environment (up to 250°).
- Detection in corrosive environment.
- Application requiring high performances.

**Detection Chart**



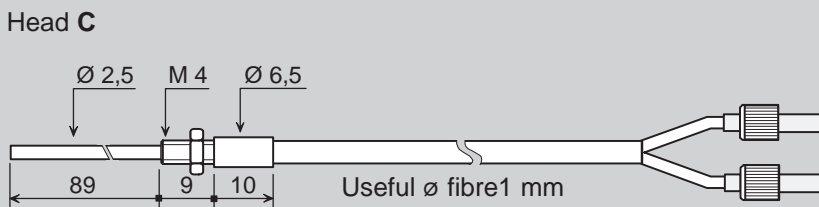
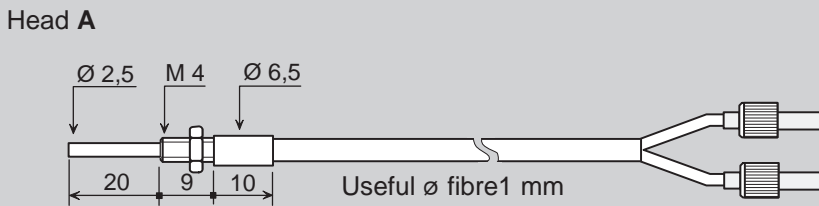
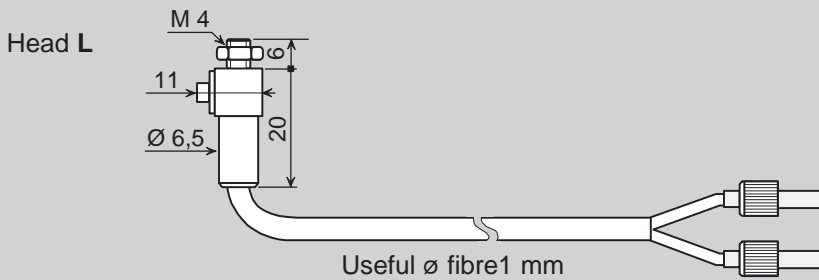
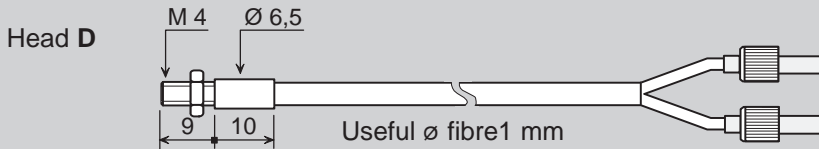
**Permissible Bending Radius**



**Technical Informations**

<b>Fibre FV</b>	400 strands	50 µ glass
<b>Sheath</b>	standard ( <b>S</b> )	PVC + thermo polyolefine
	reinforced metal ( <b>M</b> )	metallic spiral+ polyolefine
	high-temperature ( <b>T</b> )	flexible INOX
<b>Detection tips</b>		nickel brass
<b>Operating temperature</b>	<b>S</b> Type	-25° to +60°
	<b>M</b> Type	-25° to +120°
	<b>T</b> Type	-25° to +250°

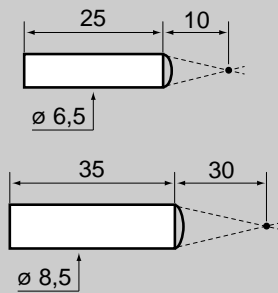
Reflective Mode - P



REFERENCE			SENSING DISTANCE (mm)
FV -	P S D P M D P T D (D = straight)	Sheath	80
		Head	
		Long.	
		61 101 151 201	
FV -	P S L P M L P T L (L = lateral)	Sheath	80
		Head	
		Long.	
		61 101 151 201	
FV -	P S A P M A P T A (A = long)	Sheath	80
		Head	
		Long.	
		61 101 151 201	
FV -	P S C P M C P T C (C = applicable)	Sheath	80
		Head	
		Long.	
		61 101 151 201	
	Ref. 1120		10
	Ref. 1125		30

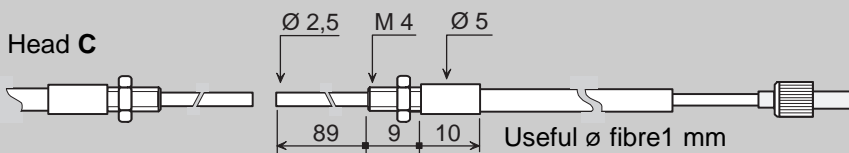
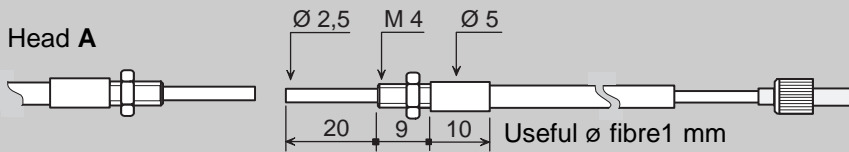
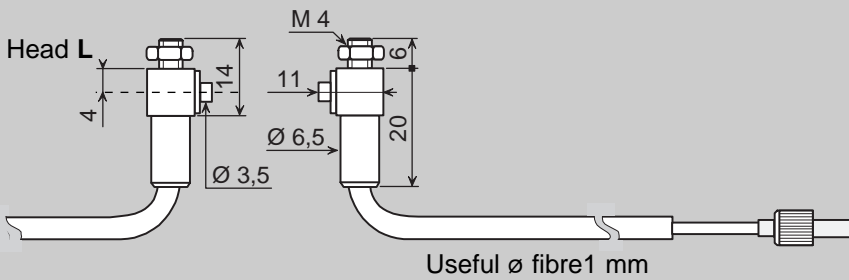
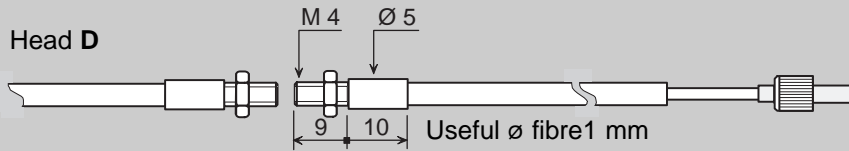
ACCESSORIES

Optics for punctual reading of marks, contrasts, faults,... (Usable on fibre head D only)



Material : Anodized aluminium  
Glass lens

Through-Beam Mode - ER

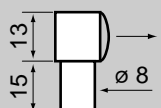
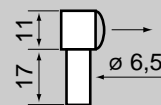
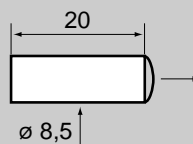
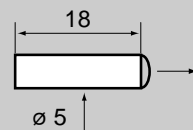


REFERENCE			SENSING DISTANCE (mm)
FV -	ER S D ER M D ER T D (D = straight)	Long. { 61	200
		{ 101	
		{ 151	
		{ 201	
FV -	ER S L ER M L ER T L (L = lateral)	Long. { 61	200
		{ 101	
		{ 151	
		{ 201	
FV -	ER S A ER M A ER T A (A = long)	Long. { 61	200
		{ 101	
		{ 151	
		{ 201	
FV -	ER S C ER M C ER T C (C = applicable)	Long. { 61	200
		{ 101	
		{ 151	
		{ 201	
		Ref. 1121 (70° max.)	800
		Ref. 1124 (250° max.)	3000
		Ref. 1122 (70° max.)	800
		Ref. 1123 (70° max.)	3000

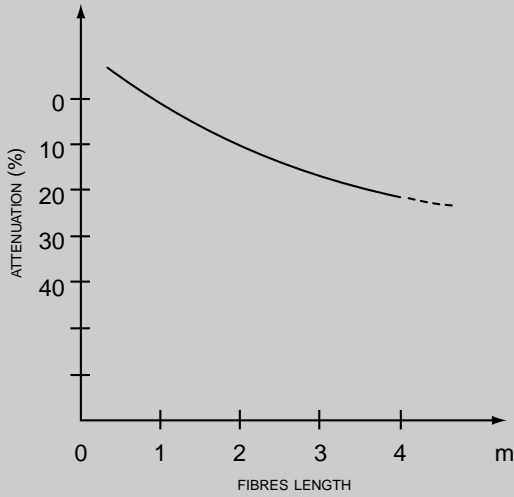
**ACCESSORIES**

Optics sold by pair.

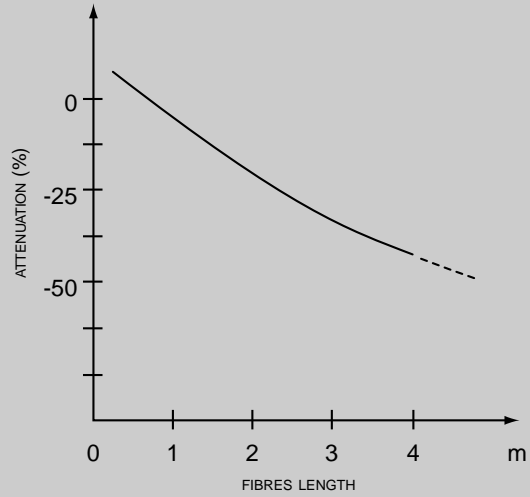
To be screwed in the end of the fibres (head **D**) in order to increase the sensing distance.



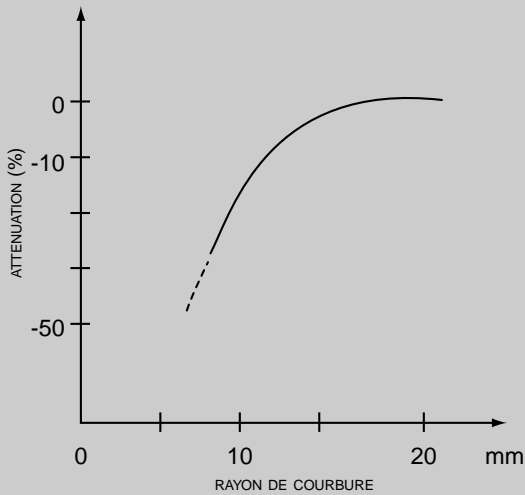
Attenuation Curves



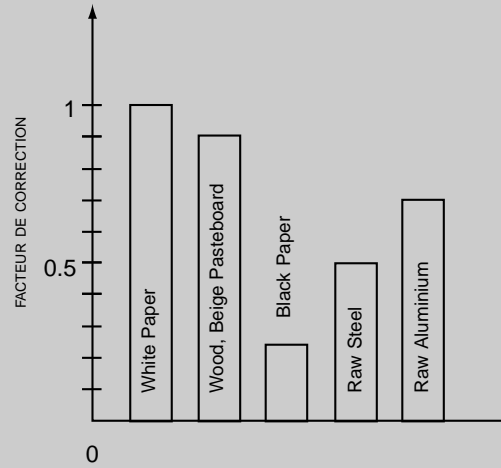
Attenuation vs Length THOUGH-BEAM MODE



Attenuation vs Length REFLECTIVE MODE



Influence of the Bending Radius



Influence of the Material

To Place Order

