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

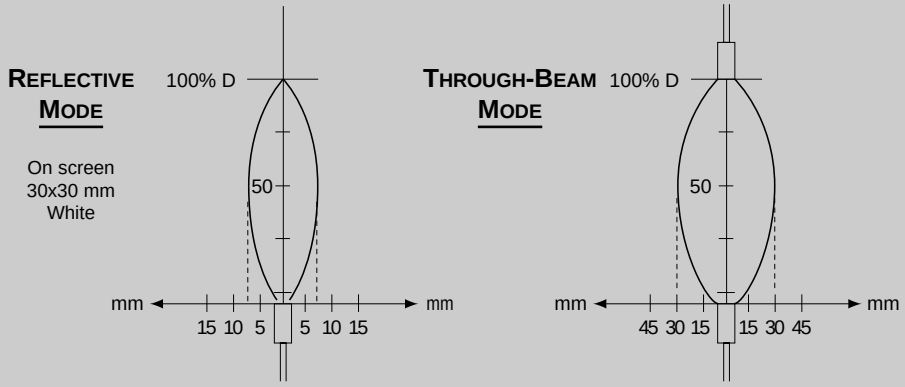
Description :

- Glass fibre 400 strands per mm^2
- Useful diametre of the fibre 1,2 mm
- Sensing distances given for a fibre length up to 1 metre

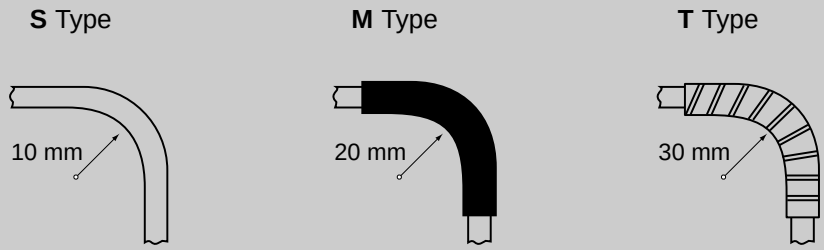
Applications :

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

Detection Chart



Permissible Bending Radius

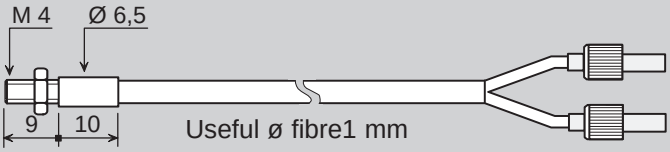


Technical Informations

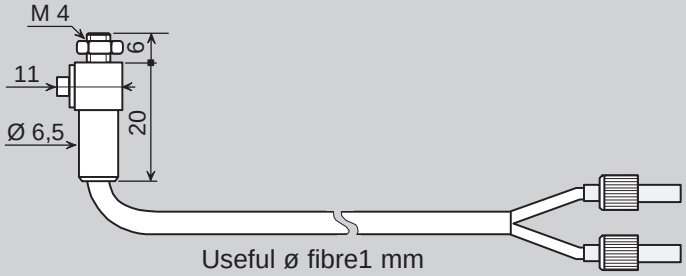
Fibre FV	400 strands	50 µ glass
Sheath	standard **(S)**	PVC + thermo polyolefine
	reinforced metal **(M)**	metallic spiral+ polyolefine
	high-temperature **(T)**	flexible INOX
Detection tips		nickel brass
Operating temperature	**S** Type	-25° to +60°
	M Type	-25° to +120°
	T Type	-25° to +250°

Reflective Mode - P

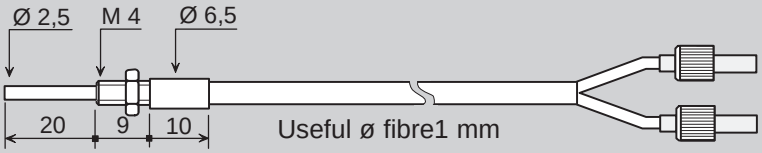
Head **D**



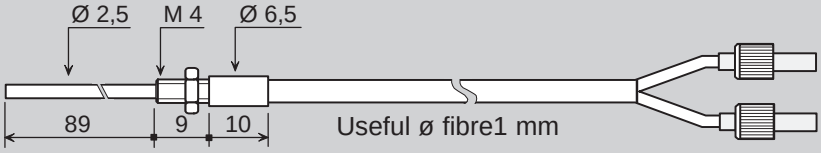
Head **L**



Head **A**



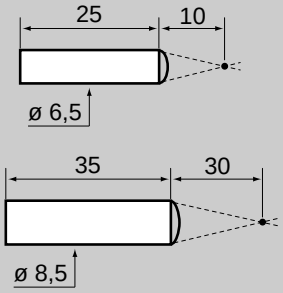
Head **C**



Reference			Sensing Distance (mm)
Sheath Head Long.			
FV -	P S **D**	61 / 101 / 151 / 201	80
	P M **D**		
	P T **D**		
(**D** = straight)			
FV -	P S **L**	61 / 101 / 151 / 201	80
	P M **L**		
	P T **L**		
(**L** = lateral)			
FV -	P S **A**	61 / 101 / 151 / 201	80
	P M **A**		
	P T **A**		
(**A** = long)			
FV -	P S **C**	61 / 101 / 151 / 201	80
	P M **C**		
	P T **C**		
(**C** = appliable)			

Accessories

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

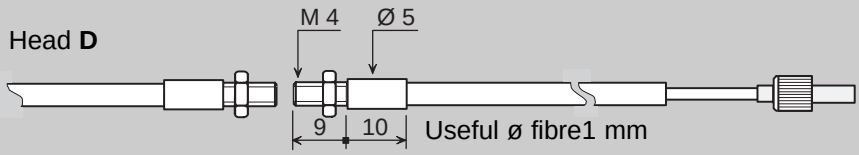


Material : Anodized aluminium
Glass lens

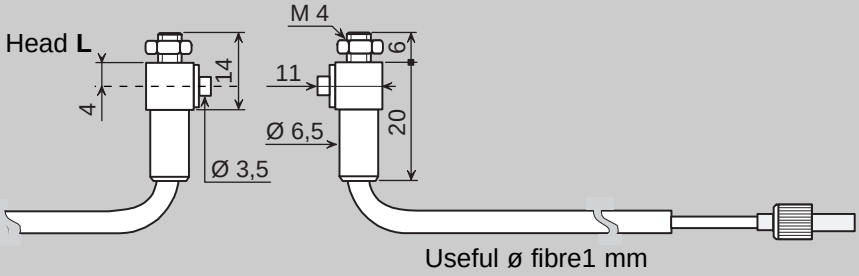
Ref. 1120	10
Ref. 1125	30

Through-Beam Mode - ER

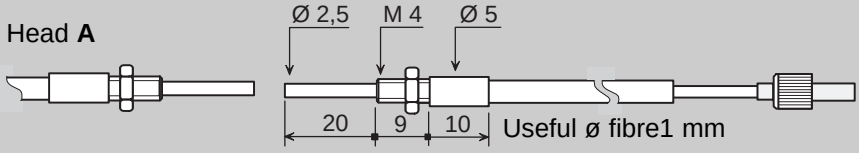
Head **D**



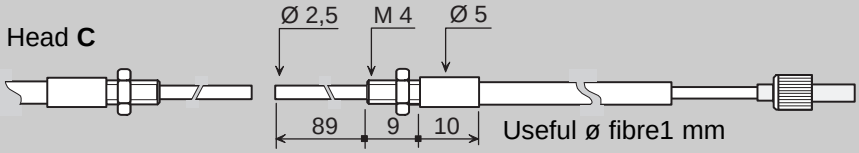
Head **L**



Head **A**



Head **C**

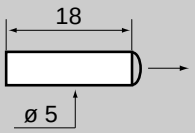


Reference			Sensing Distance (mm)
Sheath Head		Long.	
FV - ER S **D** / ER M **D** / ER T **D** (**D** = straight)		61 / 101 / 151 / 201	200
FV - ER S **L** / ER M **L** / ER T **L** (**L** = lateral)		61 / 101 / 151 / 201	200
FV - ER S **A** / ER M **A** / ER T **A** (**A** = long)		61 / 101 / 151 / 201	200
FV - ER S **C** / ER M **C** / ER T **C** (**C** = appliable)		61 / 101 / 151 / 201	200

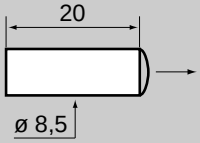
Accessories

Optics sold by pair.

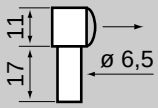
To be screwed in the end of the fibres (head **D**) in order to increase the sensing distance.



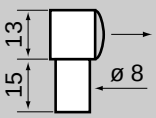
Ref. 1121 (70° max.) — 800



Ref. 1124 (250° max.) — 3000

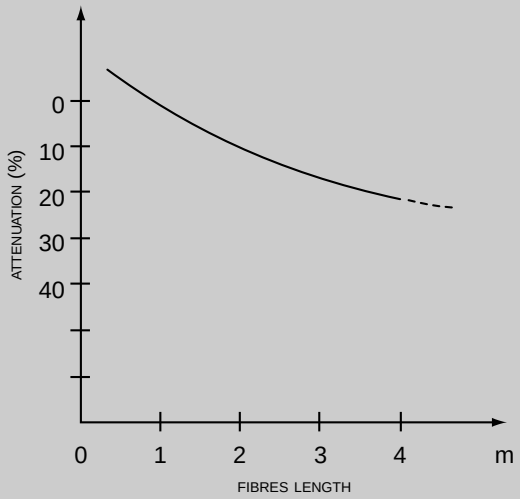


Ref. 1122 (70° max.) — 800

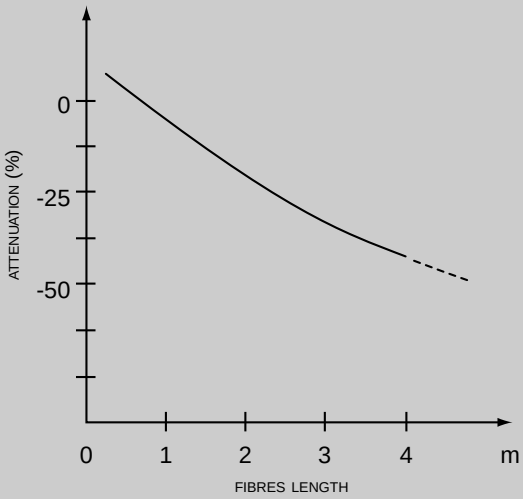


Ref. 1123 (70° max.) — 3000

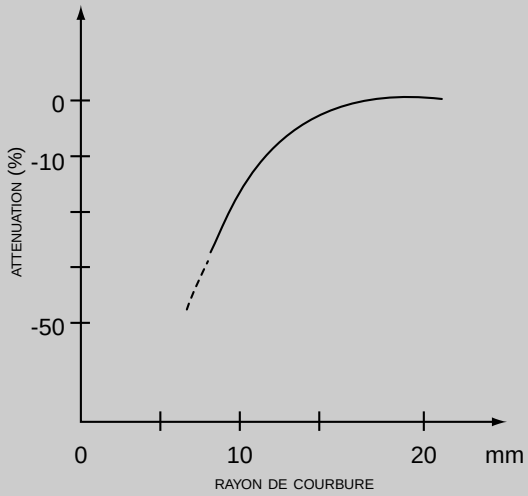
Attenuation Curves



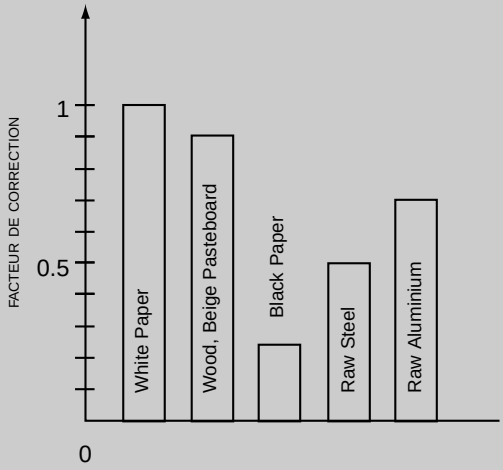
Attenuation vs Length
THOUGH-BEAM MODE



Attenuation vs Length
REFLECTIVE MODE



Influence of the Bending Radius



Influence of the Material

To Place Order

FV - ER S L - 101

Glass Fibre

TYPE
- **P** - Reflective Mode
- **ER** - Through-Beam Mode

SHEATH
- **S** - Standard
- **M** - Reinforced Metal
- **T** - High-Temperature

HEAD
- **D** - Straight
- **L** - Lateral
- **A** - Long
- **C** - Appliable

LENGTH
- **61** - 60 cm
- **101** - 1 m
- **151** - 1,5 m
- **201** - 2 m