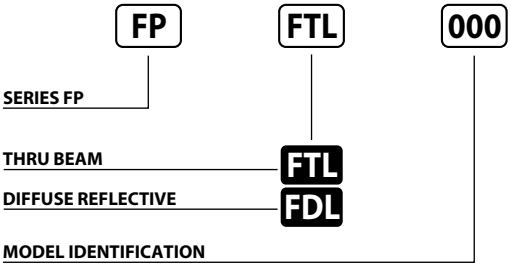
- ***Sensing distance: 80 mm Diffuse Reflective***
- ***Sensing distance: 200 mm Thru Beam***
- ***Use with amplifier AF10***

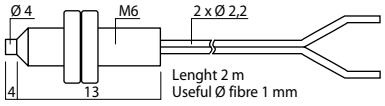
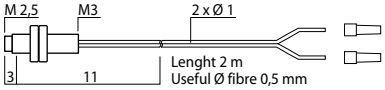
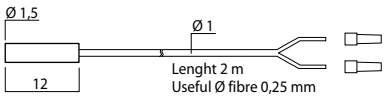
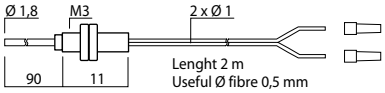
New

FP Series

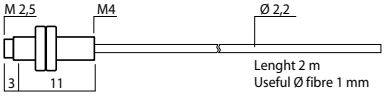
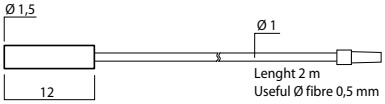
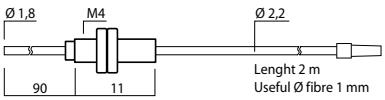
Identification code



Diffuse reflective selection table

CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
FPFDL010	2000		80 mm	○ ●
FPFDL110	2000		30 mm	○ ●
FPFDL100	2000		10 mm	○ ●
FPFDL310	2000		30 mm	○ ●

Thru Beam selection table

CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
FPFTL000	2000		200 mm	○ ●
FPFTL200	2000		100 mm	○ ●
FPFTL301	2000		200 mm	○ ●

Optical fibers adjustment procedures

1) SENSITIVITY ADJUSTMENT

- Even after the tuning, sensitivity may be slightly changed by the object to be sensed and by environmental factors.
- Since the reflectivity changes according to the object, adjustment must be carried out using the object to be detected.
- Once the adjustment is completed, do not change the fixing or the bending radius.
- Make sure adjustment has been carried out correctly.

2) OPTICAL FIBERS

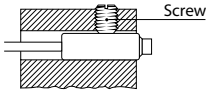
- Plastic fibers can be cut with the proper fiber cutter in the desired length.
- Cut the fiber before connecting them, and be sure that the cut is perfect in order to avoid decrease of sensitivity.
- Do not use the same cutting hole for more than one cut.

3) FIBER FIXING

- Use the supplied nuts and washers. When screwing pay attention not to damage the fiber with excessive forcing.

	FIXING TORQUE
M 3	6 Kgf - cm MAX.
M 4	
M 5	10 Kgf - cm MAX.

- When fixing the smooth (not threaded) type of fiber, use a M3 max. screw and do not exceed torque force of kg/cm 2 max.



4) BENDING RADIUS

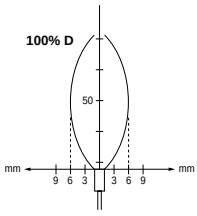
- Bending radius must not be less than 25 mm in order to avoid a reduction of sensibility.

Fibers must not bear excessive mechanical, tension or compression loads. Do not let them be dirty or scratched, should it happen, clean them with a clean tissue to prevent defects in the functioning do not set photoelectric sensors and fibers in the following locations:
- dusty locations
- corrosive atmosphere
- locations where oil, water or chemicals are present
- where sunlight or foreign light may directly reach the receiver.

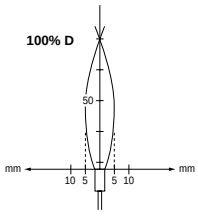
Caracteristic curves

Diffuse Reflective

Plastic fibre Ø 1 mm

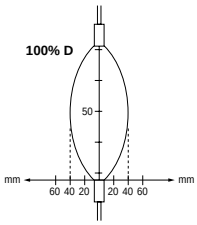


Plastic fibre Ø 0.5 mm

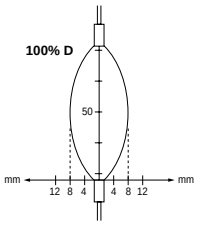


Thru Beam

Plastic fibre Ø 1 mm



Plastic fibre Ø 0.5 mm



Accessory (lens for Thru Beam fibres)

Code: **FPFTLLEN**

Used with FP FTL 000
increase range up to 1200 mm