

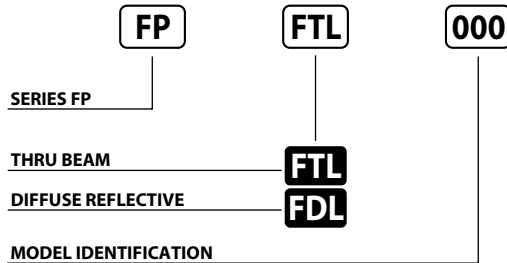
## PLASTIC OPTICAL FIBERS

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

## FP Series



### Identification code



### Diffuse reflective selection table

CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
PPFDL010	2000		80 mm	
PPFDL110	2000		30 mm	
PPFDL100	2000		10 mm	
PPFDL310	2000		30 mm	

### Thru Beam selection table

CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
PPFTL000	2000		200 mm	
PPFTL200	2000		100 mm	
PPFTL301	2000		200 mm	

### Optical fibers adjustment procedures and assembling

#### 1) AMPLIFIER UNIT

- Make sure that the supply voltage complies with the given value ( $\pm 10\%$ ) for a stable functioning.
- The connection cables of the amplifier must be separated from the power cables in order to avoid interferences in the net.
- Temperature and humidity must be within the given limits.

#### 2) SENSITIVITY ADJUSTMENT

- Even after the tuning, sensitivity may be slightly changed by the object to be detected 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 the adjustment has been carried out correctly.

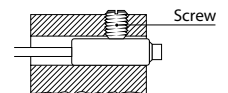
#### 3) OPTICAL FIBERS

- Plastic fibers can be cut with the proper fiber cutter in the desired length.
- Cut the fibers 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.

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

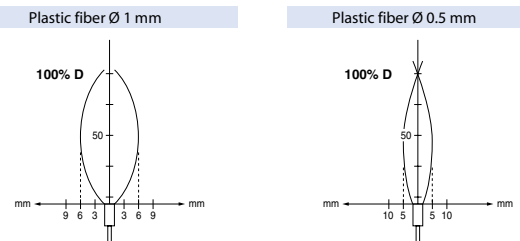
#### 4) FIBER FIXING

- Use the supplied nuts and washers. When screwing pay attention not to damage the fiber with excessive forcing.
- When fixing the smooth (not threaded) type of fiber, use a M3 max. screw and do not exceed torque force of 3 kg/cm<sup>2</sup> max.



### Caracteristic curves

#### Diffuse Reflective



#### Thru Beam

