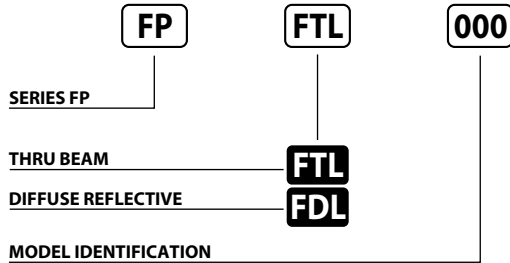


- Sensing distance: 80 mm Diffuse Reflective
- Sensing distance: 200 mm Thru Beam
- Use with amplifier AF10

Identification code



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

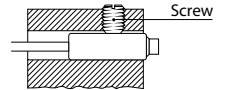
- Plastic fibers can be cut with the proper fiber cutter in the desired length.
- Cut the fiber before connecting them, and be sure that the cut is perfect in order to avoid decrease of sensitivity.
- Do not use the same cutting hole for more than one cut.

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	10 Kgf - cm MAX.
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.

Diffuse reflective selection table

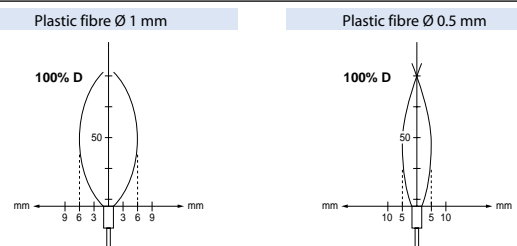
CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
FPFDL010	2000		80 mm	
FPFDL110	2000		30 mm	
FPFDL100	2000		10 mm	
FPFDL310	2000		30 mm	

Thru Beam selection table

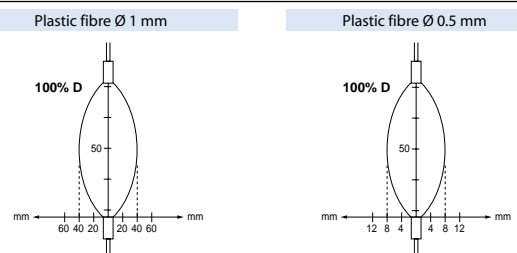
CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
FPFTL000	2000		200 mm	
FPFTL200	2000		100 mm	
FPFTL301	2000		200 mm	

Characteristic curves

Diffuse Reflective



Thru Beam



Accessory (lens for Thru Beam fibres)

Code: **FPFTLLEN**

Used with FP FTL 000
increase range up to 1200 mm

