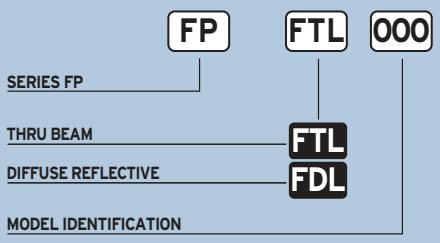
PLASTIC OPTICAL FIBERS

DIFFUSE REFLECTIVE AND THRU BEAM MODELS

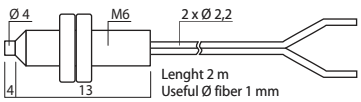
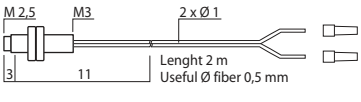
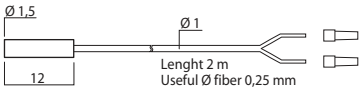
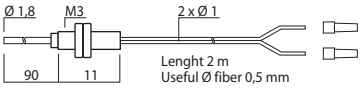
- Sensing distance: 80 mm Diffuse Reflective model
- Sensing distance: 200 mm Thru Beam model
- Use with amplifier AF10

FP Series

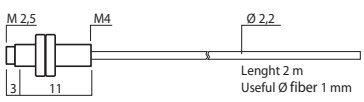
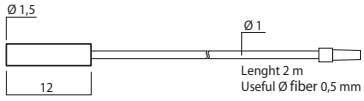
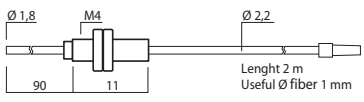
IDENTIFICATION CODE



DIFFUSE REFLECTIVE SELECTION TABLE

CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
FPFDL010	2000	 Possible cutting	80 mm	○●
FPFDL110	2000	 Possible cutting	30 mm	○●
FPFDL100	2000	 Not possible cutting	10 mm	○●
FPFDL310	2000	 Possible cutting	30 mm	○●

THRU BEAM SELECTION TABLE

CODE	CABLE LENGTH	DIMENSIONS	SWITCHING DISTANCE	TYPE OF FIBER
FPFTL000	2000	 Possible cutting	200 mm	●
FPFTL200	2000	 Not possible cutting	100 mm	●
FPFTL301	2000	 Possible cutting	200 mm	●

ADJUSTMENT PROCEDURES AND ASSEMBLING

1) AMPLIFIER UNIT

- Make sure that the supply voltage complies with the given value (± 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.

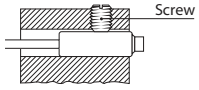
3) OPTICAL FIBERS

- 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	
M 5	10 Kgf - cm MAX.

4) FIBER FIXING

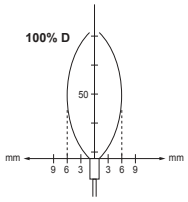
- Use the supplied nuts and washers. When screwing pay attention not to damage the fiber with excessive forcing.
- When fixing the smooth (not threaded) type of fiber, use a M3 max. screw and do not exceed torque force of 3 kg/cm 2 max.



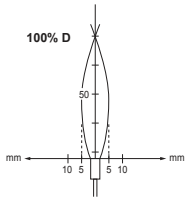
CHARACTERISTIC CURVES

Diffuse Reflective

Plastic fiber ˇ 1 mm

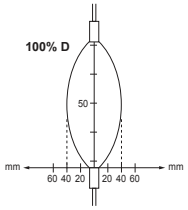


Plastic fiber ˇ 0.5 mm

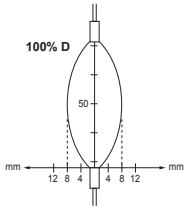


Thru Beam

Plastic fiber ˇ 1 mm



Plastic fiber ˇ 0.5 mm



PHOTOELECTRIC

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