Fiber Optic Sensor

PROXIMON
An ISO 9001 Company

Digital Fiber Amplifier

Fiber Optic Sensor consist of Fiber optic cable with Amplifier. This is been used where user wants to detect presence of small objects (opaque / semitransparent).

It is also beneficial where mounting space is the constraint and standard photoelectric sensors cannot be used.

The output from fiber optic amplifier is PNP / NPN transistorized with load logic NO (Light ON) or NC (Dark On) selectable.

The fiber optic cable connected to Amplifier can be used in Diffused or Through Beam mode.

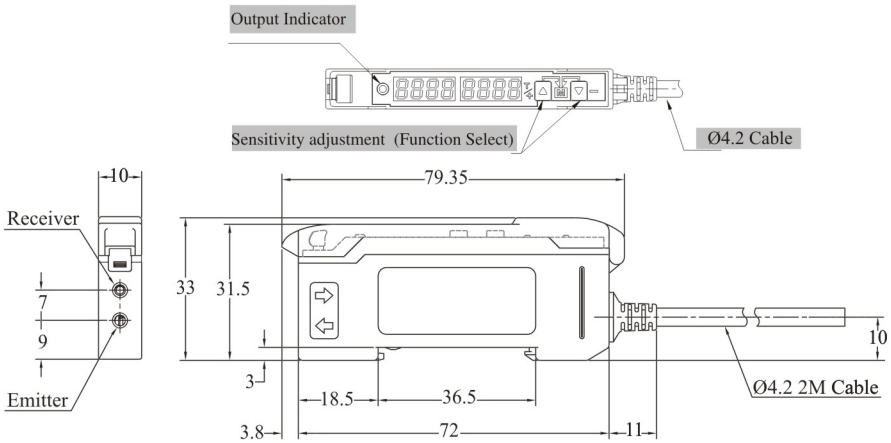
The fiber optic cable is flexible having bending radius R25. The threaded mounting is M6 for Diffused mode and M3 for Through Beam type.

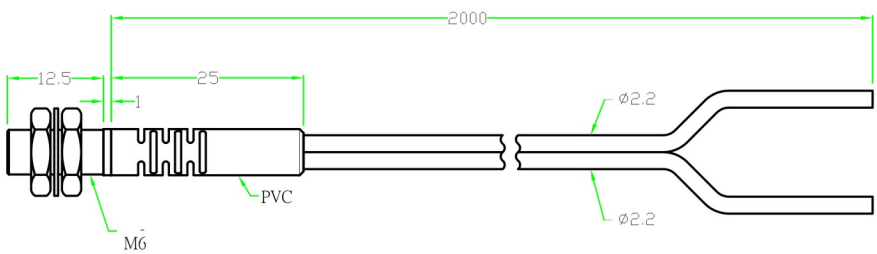
The fiber optic amplifier comes in thin 10 mm width housing for mounting on standard 35 mm DIN-rail.

◆ Specifications :

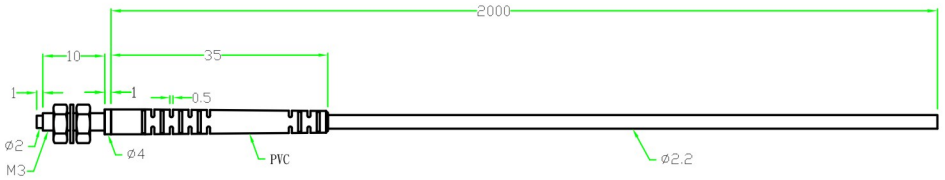
Model	DFOAPN
Emitting light	Red LED 623nm
Operating voltage	DC12~24V ± 10%
Current Consumption	50mA Max.
Load Current	100mA Max.
Output type	NPN L.on / D.on PNP L.on / D.on
Protection Circuit	Reversed polarity protection, over-current protection
Response Time	1 ms
Indicators	Output indicator : Red LED
Sensitivity adjustment	4 Digit 18-9970
Timer Function	On Delay, Off Delay
Operating temperature	- 10 ℃ ~ + 60 ℃
Ambient humidity	35% ~ 85% RH
Protection degree	Ip50
Material	ABS
Wiring method	Pre-wired Ø4.2 x 2 M/ 4-wires

◆ Dimensions : (unit:mm)





Fiber Optic Cable Diffused Beam
Model : FOS100D, Sn : 100mm



Fiber Optic Cable Through Beam
Model : FOS300T, Sn : 300mm

◆ Wiring diagrams: