

# Fiber Sensors

All Optex-FA fiber optic sensors are designed for high performance and ease of use.

From models with digital display and pushbutton teach to manual adjust there is an amplifier to solve your application.

All amplifiers are available in Cabled or M8 QD versions and are offered with a choice of NPN or PNP outputs.

# Fiber Sensor BIF series



M8 Connector type

Cable type

## Moisture detection type

(Sensing distance : 50mm)

Stand alone · BIF-WN / WP / CWN / CWP

Fiber Sensor

### Applications



Moisture detection type  
(BIF-WN)

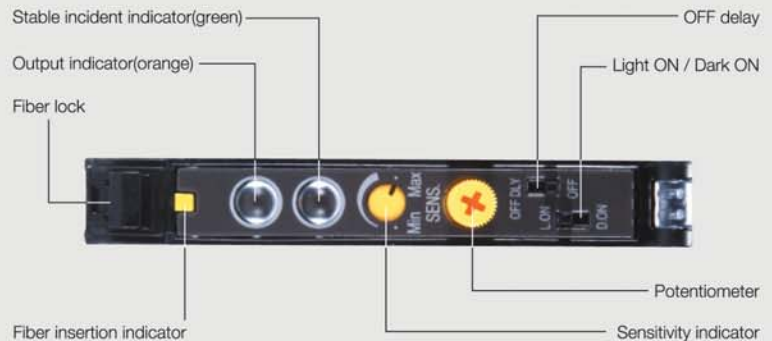
- **Unique "Moisture Sensing Type" BIF-W series senses the presence of moisture in a product.**

## System requirements

Stand-alone type		
with cable		No additional cables are required
M8 connector		M8 connector cable JCN-L      JCN-S

## Features

### Part Identification



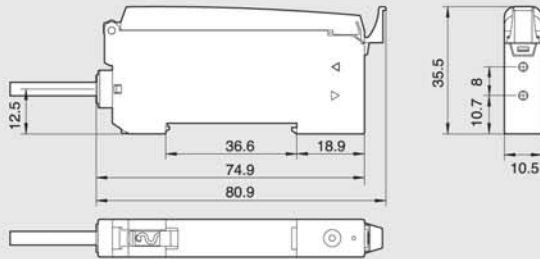
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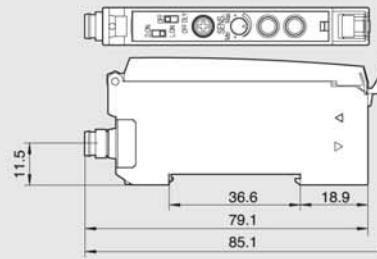
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## Dimensions

### Cable Type Stand-alone



### M8 Connector Stand-alone



(Unit : mm)

## Specifications

Model		Moisture type
Stand-alone	Cable type	BIF-WN / WP
	Connector type	BIF-CWN / CWP
Sensing distance	90% 250mmx200mm	30mm Diffuse
	DK-06 Diffuse Fiber	100mm Thru-beam
Response time		1msec
Control output		NPN or PNP Open Collector 100mA/DC30V max. 1.8V/100mA max.
Light source		Infrared LED
LED Indicator	Stable output	Green
	Output	Orange
Potentiometer		10 turn
Operating mode		Dark On/Light On selectable
Timer		Off Delay 40msec fixed
Supply voltage		DC10 ~ 30V Inc. 10% ripple
Power consumption		25mA/30V (30mA/30V Interconnection type)
Environmental illuminance	Sunlight	10,000 lx min.
	Incandescent lamp	3,000 lx min.
Operating temp		-25 ~ +55°C
Operating humidity		35 ~ 85%
Storage temp / humidity		-40 ~ +70°C/35 ~ 95%
Insulation resistance		Min. 20MΩ/DC500V
Conformity	EMC Test	CE regulation
	Failen Test (house test)	Level 3
Temp drift		±5% max.
LED Compensation ratio		-10% max./1000 h
Vibration resistance	IEC68	10 ~ 55Hz, 1.5mm
Shock resistance	IEC68	500m/s <sup>2</sup>
Protection category	Stand-alone	IP66
	Interconnection	IP50
Warm-up time		100ms max.
Circuit protection		Overcurrent (output), Reverse Polarity, Short Circuit
VED classification		Class 3
Material	Housing	PBT G10
	Cover	PC
Dimensions		W10.5 x D80 x H35.5mm
Regulation	UL	cRU recognition
	CE	CE sign

D2RF

BRF

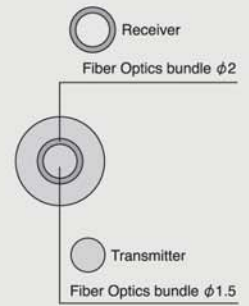
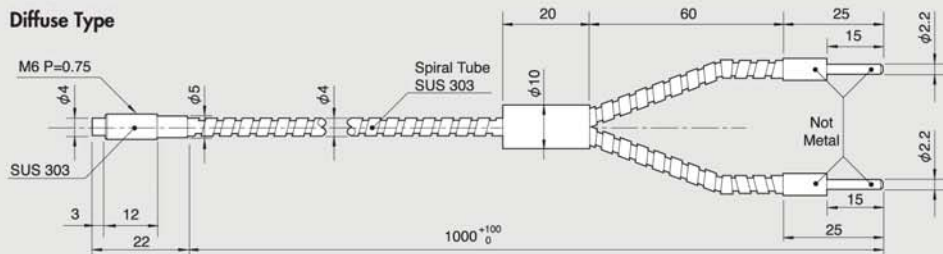
BIF

NF

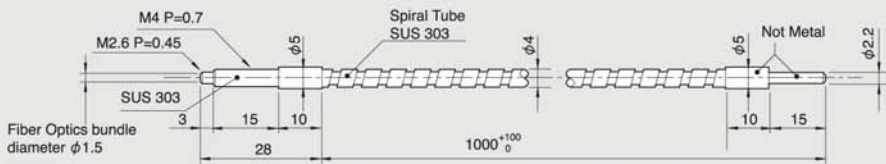
NF02  
NF25

**Special fiber unit for BIF-W Moisture Type**

**NF-DW01**  
Diffuse Type



**NF-TW01**  
Thru-beam Type



D2RF

BRF

**BIF**

NF

NF02  
NF25