**(L**ANBAO

# Fiber amplifier FD3 series



### Features

- Sensitivity can be adjusted by simple operation and supports automatic calibration
- Support delayed response, increase detection stability
- Rich functions, easy to set up, and widely used
- Fixed on DIN rail for easy installation and removal

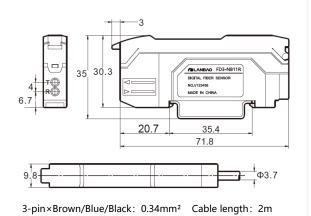
Model specification						
NPN	FD3-NB11R		PNP	FD3-PB11R		
Specifications						
Light source		Red LED				
Response time		50μs(HIGH SPEED)/250μs(FINE)/1ms(SUPER)/16ms(MEGA)				
Output select		NO/NC Optional				
Delay function Off-delay timer/on-delay timer/single timer						
Control output NPN (		NPN 0V, load current: ≤100mA ; remaining voltage: ≤1V				
	PNP 0V, load current: ≤100mA ; remaining voltage: ≤1V					
Protect the circuit		Short circuit protection, Overload protection, Reverse polarity protection				
Supply voltage		1224VDC±10%, Ripple (P-P):≤10%				
Power consumption *		NPN: Normal: <900mW(24V: <36mA; 12V: <48mA); Power save mode: <800mW(24V: <32mA;12V: <39mA)				
PNP: Normal: ≤950mW(24V: ≤39mA; 12V: ≤52mA); Power save mode: ≤850mW(24V: ≤35mA at; 12V: ≤		mode: ≤850mW(24V: ≤35mA at; 12V: ≤44mA)				
Anti ambient ligh	ht	Incandescent: ≤20,000lux; Daylight: ≤30,000lux				
Ambient temperature -2055°C(No freezing)						
Environment humidity 3585%RH(No condensation)						
Vibration resistance 1055Hz, Dual amplitude 1.5mm(2 hours each in X, Y, Z directions)		ins)				
Impulse withsand		500m/s <sup>2</sup> , 3 times each for X,Y,Z direction				
Housing material		PC				

\*High speed mode makes an increase of 160mW (7mA) power consumption

#### Dimensions

Weight

Connection method



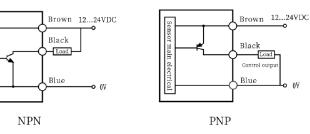
2m PVC cable About 66g

#### **Circuit Diagrams**

Toggle the power selection switch to output two different channel(NPN/PNP) type switch modes

FD3-NB11R

FD3-PB11R





# Optical fiber **PFT** series



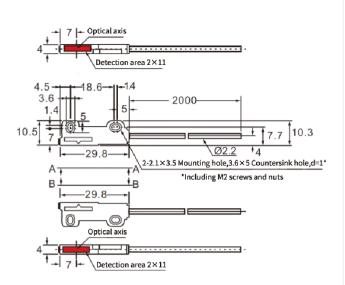
### Features

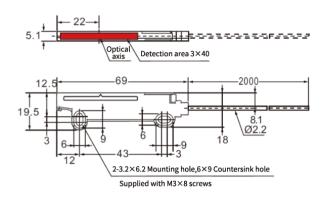
- Long spot design to cover large area
- Stable detection of hollowed-carved materials
- Match with fiber amplifier to realize deviation correction

Model specification	PFT-R01	PFT-R02
Detection distance	7001200mm	14002000mm
Minimum bending radius	R2	R2
Temperature resistance	- 4070℃	- 4070℃

**Dimensions : PFT-R01** 

Dimensions : PFT-R02

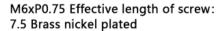


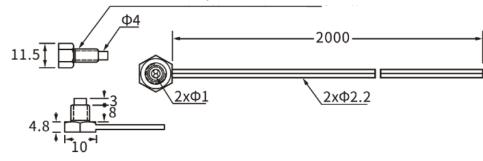




## Optical fiber **PFR** series

	Model specification	PFR-610-V
1	Detection distance	15/30/45mm
	Minimum bending radius	R2
	Temperature resistance	- 4070°C



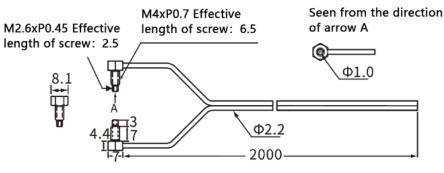




Model specification	PFR-410-V
Detection distance	35/110/200mm
Minimum bending radius	R2
Temperature resistance	- 4070℃

M4xP0.7 Effective length of screw: 6.5 Brass nickel plated 02.6 02.6 2000 02.6  $2x\Phi 1.0$   $2x\Phi 1.3$ Parenthesis NX-F13





Materi: Brass nickel plated