

FR Series

General Purpose Fiber Optic Amplifier



- Four response time can be selected; (HIGH-SPEED / FINE / SUPER / MEGA)
- Max. speed 50μs.
- Perfect circuit protection; (Reverse electrode, over-voltage and over-current protection)
- High stable performance.

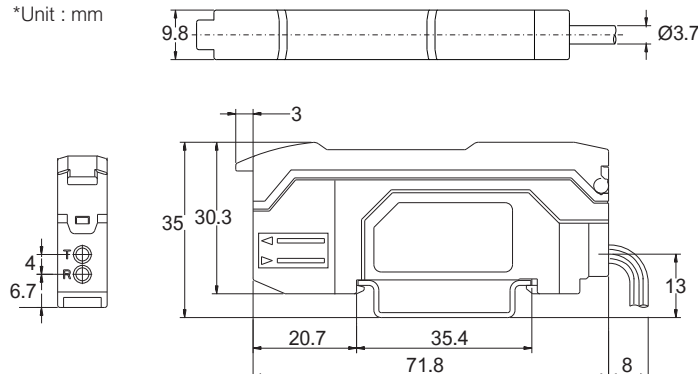


Technical Specifications

Power Source Voltage	12-24VDC±10%including a ripple
Power Consumption	Normal: 900mW max.(20mA or less/24V) / Eco All: 800mW max.(18mA or less/24V)
Response Time	40μs (HIGH SPEED) / 250μs (FINE) / 1ms (SUPER) / 16ms (MEGA)
Control Output	PNP/NPN Open collector 100mA/30V or less Load Current : 100mA or less, Residual Voltage : 1.8V or less
Output Method	Light ON / Dark ON Switching type in the function
Circuit Protection	Reverse electrode protection(power), Overcurrent/Overvoltage protection(output)
Light Source	Red LED (580nm)
Indicator Light / Display	Output indicator light : Orange (Ch 1) / 7 segment 8 digit display
Sensitivity Setting	Teach-in / Manual Adjustment
Timer Function	Delayed-breaking-off timer / Delayed-turn-on timer / One-shot timer
Ambient Luminance Tolerance	Incandescent lamp : max. 20,000lux, Sunlight : max. 30,000lux
Anti Vibration Tolerance	10~55Hz Amplitude 1.5mm 2 hours for each direction of X,Y and Z
Operating Temperature / Humidity	-20~+55C° / 35~85%RH (No freezing and No condensation)
Storage Temperature / Humidity	-30~+70C° / 35~85%RH (No freezing and No condensation)
Shock Resistance	500 m/s ² , each 3 times for X/Y/Z axis
Protective Category	IP50
Material	PC : Cover, Case
Connection Type	2m Cable
Weight	50g (Including cable)

Dimensions

*Unit : mm



Model Selection

FR-1-P	PNP
FR-1-N	NPN