

FR Series

Fiber Optic Amplifier With Analog Output



- Four response time can be selected; (HIGH-SPEED / FINE / SUPER / MEGA)
- Automatic optical gain/Counting/Zero point/Percentage/Anti-light interference/Zone (DTM)/NO/NC interchange/Time delay functions.
- Max. speed 100μs.
- Analog output : 1-5V

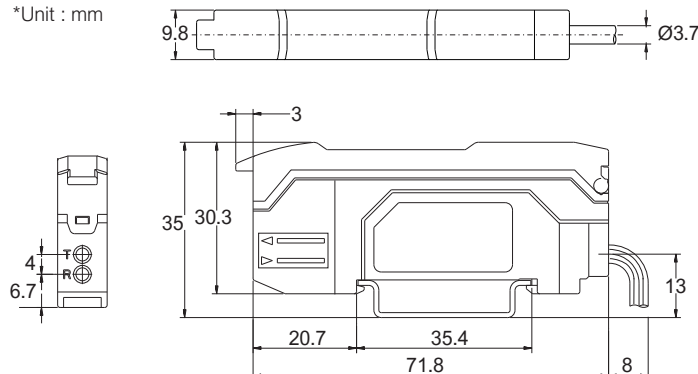


Technical Specifications

Power Source Voltage	12-24VDC±10%including a ripple
Power Consumption	Normal: 900mW max.(40mA or less/24V) / Eco All: 800mW max.(18mA or less/24V)
Control Output	PNP/NPN Open collector 100mA/24V or less Load Current : 100mA or less, Residual Voltage : 1V or less +Analog 1-5V
Response Time	Anti off: 100μs (HIGH SPEED) / 250μs (FINE) , 1ms (SUPER) / 8ms (MEGA) Anti on: 300μs (HIGH SPEED) / 500μs (FINE) , 2ms (SUPER) / 16ms (MEGA) Anti Stag: (S1 S2 S3 S4) 1ms
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
Anti Vibration Tolerance	10~55Hz Amplitude 1.5mm 2 hours for each direction of X,Y and Z
Operating Temperature / Humidity	-25~+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-2-AP	PNP + 1-5V ANALOG
FR-2-AN	NPN + 1-5V ANALOG