

FR Series

Ultra High Speed Fiber Optic Amplifier



- Seven response time can be selected;
(HIGH-SPEED / FAST / STANDARD / LONG / POWER LONG / ULTRA LONG / EXTRA LONG)
- Fastest response time in the industry 15μs.
- Unique technology for light compensation, stable detection.
- High stable auto tune performance.
- External Input.

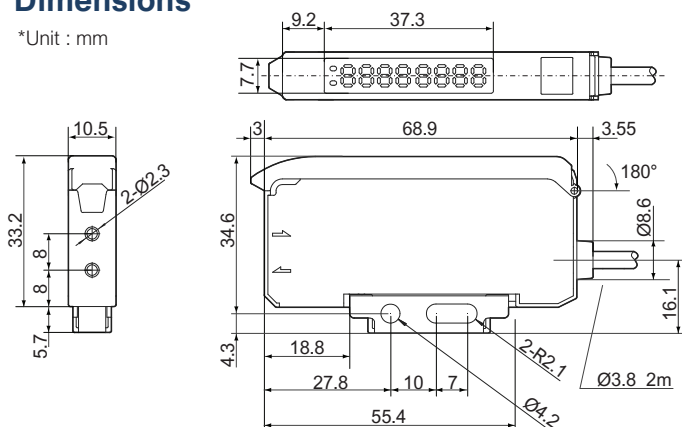


Technical Specifications

Power Source Voltage	12-24VDC±10%including a ripple
Power Consumption	Normal: 864mW max.(36mA or less/24V) / Eco All: 600mW max.(25mA or less/24V)
Control Output	PNP/NPN Open collector 100mA/30V or less Load Current : 100mA or less, Residual Voltage : 1.8V or less
Response Time	1-HS : 16μs(no interconnection), 22μs(interconnected) / 2-FS : 70μs(no interconnection) ,85μs(interconnected) 3-ST : 250μs / 4-LG : 500μs / 5-PL : 1ms / 6-UL : 2ms / 7-EL : 8ms
Output Method	Light ON / Dark ON Switching type in the function
Circuit Protection	Incorporated
Light Source	Red LED (632nm)
Indicator Light / Display	Output indicator light : Orange (Ch 1) / 7 segment 8 digit display
Sensitivity Setting	Teach-in / Manual Adjustment
Timer Function	OFF / On delay timer / Off delay timer / One-shot timer / On delay-off delay timer / On delay-one shot timer
External Input Settings	Teach-in, Emitter stop, Synchronous, Counter reset (only for 2 output type)
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	71g (Including cable)

Dimensions

*Unit : mm



Model Selection

FR-1-PH	PNP
FR-1-NH	NPN