Optical fiber amplifier

CM-FX-501-C2



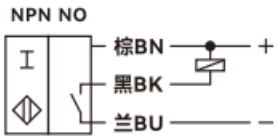
Order No.:

CM-FX-501-C2

Features

- Improved operability and visibility of operating switches
- Reduced differential gap, sensitive detection with adjustable sensitivity levels
- Wide-view flat panel display
- Unified display of received light amount adjustment settings for easier understanding

Wiring



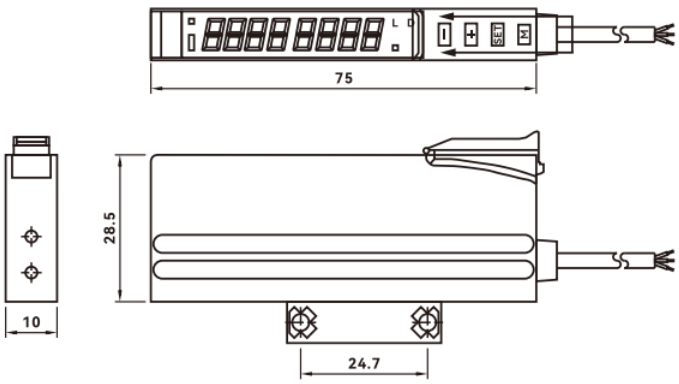
Precaution

- Please perform wiring and installation work with the power supply turned off
- Please note that connecting circuits that exceed the specified operating range, or connecting the device directly to an AC power source, may result in damage or equipment failure.
- Please note that short circuits in the load or wiring errors may result in damage to the device or fire hazards.
- Do not route signal cables in parallel with power cables, nor run them through the same conduit. Doing so may result in malfunctions caused by electromagnetic induction.
- Please monitor power supply fluctuations to ensure that the input voltage remains within the rated operating range.
- When using a commercially available switching regulator as the power source, ensure that the Frame Ground (F.G.) terminal of the power supply unit is properly grounded.
- If devices that generate induced noise—such as switching regulators or inverters—are installed in the vicinity of this product, please ensure that the Frame Ground (F.G.) terminals of those devices are properly grounded.
- Do not use one-touch connectors for the cables (sold separately). Additionally, when extending the cable length, you may extend the total length up to 100 meters using a cable with a cross-sectional area of 0.3 mm² or greater; however, to minimize interference, please keep the wiring as short as possible.
- Do not subject the cable or fiber optic exit points to excessive stress, such as bending or pulling forces.
- If UL/c-UL certification compliance is required, please use a power supply unit that meets Class 2 standards.
- The device's performance may be compromised when operating within a strong electromagnetic field.
- During operation, please avoid using the device during the transient state immediately following power-up (H-SP, FAST, STD: 0.5s; LONG, U-LG, HYPRO: 1s).
- In strong electromagnetic fields, performance may not be fully achieved.

Accessory

Screw*2

Overall dimension



Technical Parameters

General description	
Switch point function	NPN
Output points	1 Point
Output action	The L/D mode allows switching between "ON when light is received" and "ON when light is not received."
Incoming light quantity display range	LONG:0∽8000、U-LG/HYPR:0∽9999
Rated grade	
Rated voltage U_B	DC12-24V
Response time	30ms
Light emitting components	Red LED (Peak Emission Wavelength 643nm)
Voltage drop Ud	＜2V
Working current IL	40mA
Circuit protection	Reverse polarity protection、Short-circuit protection
Timer time	Timer range "ms" : About 0.5ms, 1 ∽ 9,999ms, 1ms/Timer
	range "sec." : About 0.5s, 1 ∽32 s, about 1s /
	Timer range "1/10ms" : about 0.05ms, about 0.1 ~ 999.9ms,
	About 0.1ms is set separately for each output unit
Adjustable light emission level	2-point teach/Limited teach/Fully automatic teach/Manual adjustment
Sensitivity setting methods:	
	Equipped with 3 levels (each level from 25% to 100%) + Automatic setting
	[H-SP is level 1 (25% to 100%)]
Timer Functions:	OFF Delay Timer / ON Delay Timer / One-Touch Timer / ON OFF Delay Timer /
	ON Delay/One-Touch Timer (Active/Inactive Switching Timer) Variable Time
Surrounding environment	
Ambient temperature	- 25℃~+70℃(No icing, no condensation)
Ambient humidity	35~95% RH (No condensation)
Mechanical properties	
Wiring	Cable 2m (standard type)
Housing:	Outer cover: Polycarbonate, Switch: Polyester elastomer
Protection level	IP65
Certification and standards	
Certificates	CE CCC CQC ISO9001 ISO14001 ISO45001
Unit Weight	About 70g

The datasheet is subject to change without notice.

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