



FS-N15CP

Fibre Amplifier, M8 Connector Type, PNP

(€ ¢**(UL**) us

SPECIFICATIONS

	FS-N15CP	
	1 output type	
	PNP	
	M8 connector *1	
	Main unit	
	1 output PNP open collector 24 V or less; maximum 100 mA or less, residual voltage 1 V or less	
	1 input Input Input time 2 ms (ON)/20 ms (OFF) or more, when selecting External calibration 25 ms (ON/OFF) or more	
	50 μs (HIGH SPEED) /250 μs (FINE) /500 μs (TURBO) /1 ms (SUPER) /4 ms (ULTRA) /16 ms (MEGA)	
	0 units (expansion not possible)	
	LIGHT-ON/DARK-ON (switch-selectable)	
	Red, 4-element LED (Wavelength: 630 nm)	
	Timer OFF/OFF-delay timer/ON-delay timer/One-shot timer	
	Reverse polarity protection, Over-current protection, Surge absorber	
	0 units (connection not possible)	
	H30.3mmxW9.8mmxL71.8mm	
Power voltage	12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less	
Current Consumption	Normal: 950 mW or less (39 mA max. at 24 V, 52 mA max. at 12 V) *2 Eco on (ALL): 850 mW or less (35 mA max. at 24 V, 44 mA max. at 12 V) *2 Eco full: 520 mW or less (21 mA max. at 24 V, 26 mA max. at 12 V)	
Enclosure rating	IP66°3*4	
Ambient light	Incandescent lamp: 20,000 lux or less, Sunlight: 30,000 lux or less	
Ambient temperature	-20 to +55 °C (No freezing)	
Relative humidity	35 to 85 % RH (No condensation)	
Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions	
Shock resistance	500 m/s ² , 3 times in each of the X, Y, and Z directions	
	Main unit: glass-reinforced PBT; Cover: Sulfonic resin	
Adapter	Glass-reinforced PBT	
	Approx. 30 g	
	Current Consumption Enclosure rating Ambient light Ambient temperature Relative humidity Vibration resistance Shock resistance	

^{*1} Use a cable of 30 m or less.

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^{*2} When the Power Mode is set to HIGH SPEED, 100 mW (4.0 mA) will be added.

³ About the enclosure rating when a small-diameter fibre unit (the diameter of the cable is ø1.3 or ø1.0) is used. IP66/IP65 cannot be satisfied when the type whose diameter is ø1.3 and terminal can be separated (FU-4F/ 66/91/93/43/63/63T etc.) is used. When any small-diameter fibre units except for the above are used, IP65 is applied.

⁴ In any of the following cases, the enclosure rating IP66/IP65 cannot be satisfied.

When the Fibre Unit and KEYENCE's M8 connector cable are not connected (Recommended conditions to tighten up the M8 connector: Tighten it by hand first. Then retighten it as much as 1/16-1/8 of a rotation with pliers.)
When the Fibre Unit and KEYENCE's M8 connector cable are not connected

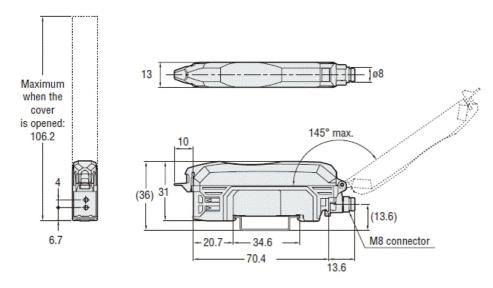
When the dust cover of the Sensor Amplifier is open
When there is debris in the dust cover
When the waterproof adapter A/B are not used at the time of installation of a small-diameter fibre unit.



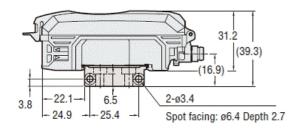
Dimensions

* Download CAD file or product manual for larger image/text and more detail.

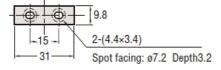
■FS-N15CN/N15CP



When the mounting bracket is attached (OP-73880 sold separately)



Reverse side of mounting bracket

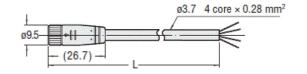


M8 Connector junction cable (OP-85498 sold separately)

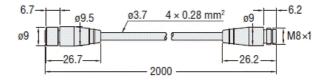


M8 Connector Cable (OP-73864/73865 sold separately)

Model	OP-73864	OP-73865
Cable length L(m)	2	10



M8 connector junction cable (OP-85498 sold separately)



Unit: mm



I/O Circuit Connection diagram

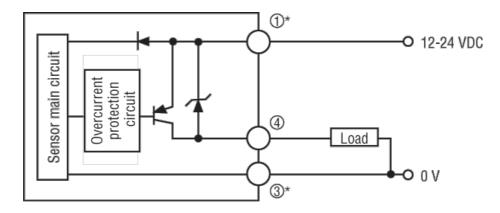
* Download CAD file or product manual for larger image/text and more detail.

Output Circuit Diagram



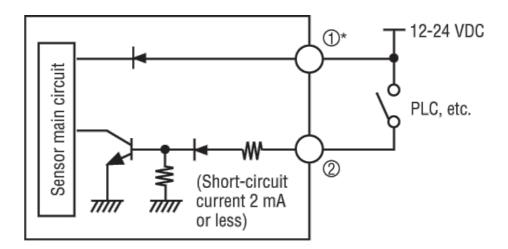
- *1 FS-N11N/N11MN/N13N only
- *2 FS-N11MN only
- *3 The FS-N13N/N14N has a white cable as separate output 2.

Output Circuit Diagram



* FS-N11CP only

Input Circuit Diagram



* FS-N11CP only