



FS-V33CP

Fibre Amplifier, M8 Connector Type, Main Unit, PNP



SPECIFICATIONS

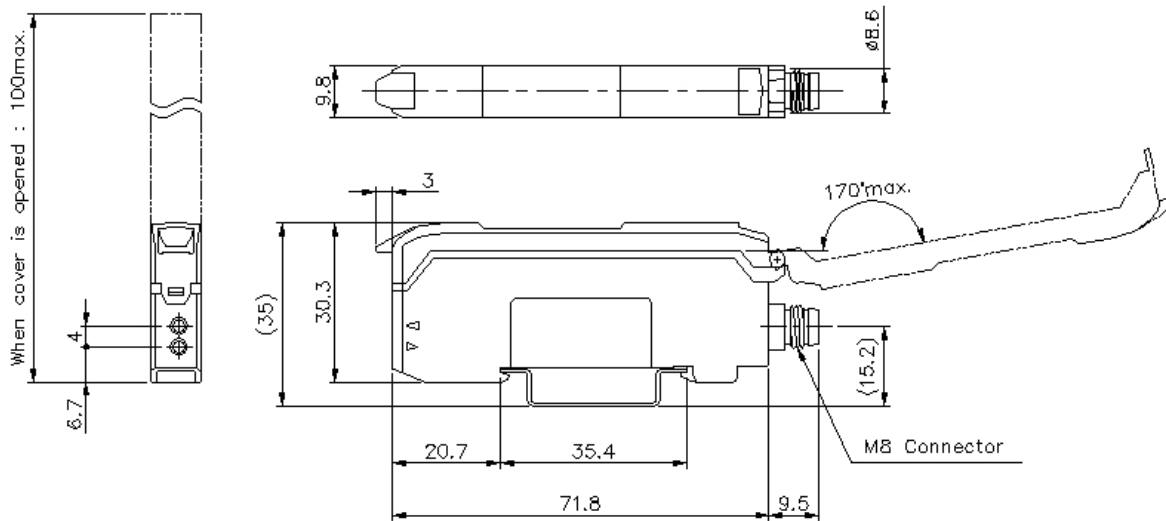
Model	FS-V33CP	
Type	2-output with M8 connector	
Output	PNP	
Main unit/Expansion unit	Main unit	
Control output	2 outputs	
Monitor output (1 to 5 V)	N/A	
External input		
Connector	M8	
Light source	Red, 4-element LED (Wavelength: 640 nm)	
Response time	33 μ s (HIGH SPEED) /250 μ s (FINE) /500 μ s (TURBO) /1 ms (SUPER TURBO) /4 ms (ULTRA TURBO) /16 ms (MEGA TURBO)	
Output selection	LIGHT-ON/DARK-ON (switch-selectable)	
Display indicator	Operation indicator: Red LED/Dual digital monitor: Dual 7-segment display, Preset Value (4-digit green LED indicator) and Current Value (4-digit red LED indicator) illuminated together. Current Value range: 0 to 64,512; Excess gain: 0P to 999P, Hold function: Possible to display both peak and bottom hold values, Selectable from 5 variations Bar LED monitor: Excess gain displayed (85% to 115% in 7 steps), Scaling display	
Detection mode	Light intensity (area detection possible, automatic sensitivity-tracking function provided)/ [Limited light intensity/Count check/Abnormality detection]	
Timer function	OFF-delay timer/ON-delay timer/One-shot timer/ON-delay timer + OFF-delay timer/ON-delay timer + One-shot timer, selectable Timer duration selectable: 0.1 ms to 9,999 ms, Maximum error against the setting value: $\pm 10\%$ max.	
Control output	PNP open-collector 24 V, 100 mA max.* ¹ (main unit only)/20 mA max. (when the expansion unit(s) is connected), Residual voltage: 1 V max.	
External input	Input time: 2 ms (ON)/20 ms (OFF) min.* ²	
Unit expansion	Up to 16 expansion units can be connected (a total of 17 units). Note that the 2-output type should be counted as two units.	
Number of interference prevention units	Normal operation	HIGHSPEED:0 FINE:4 TURBO/SUPER/ULTRA/MEGA:8台
Size	30.3 mm (H) x 9.8 mm (W) x 71.8 mm (D)	
Rating	Power voltage	12 to 24 VDC $\pm 10\%$, Ripple (P-P) 10 % or less
	Power consumption	830 mW max. (Using 24 V, 35 mA max., using 12 V, 45 mA max.)/ Power saving 660 mW max. (Using 24 V, 27 mA max., using 12 V, 32 mA max.) ³
Environmental resistance	Ambient light	Incandescent lamp: 20,000 lux max., Sunlight: 30,000 lux max.
	Ambient temperature	-10 to +55 °C (No freezing) ⁴
	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
Case material	Polycarbonate	
Accessories	N/A	
Weight	Approx. 22 g	

*¹ Total current of two outputs should be less than 100 mA.*² Only available on certain models.*³ When using the HIGH SPEED mode, the power consumption increases by 160 mW (7 mA).*⁴ If more than one unit is used together, the ambient temperature varies with the conditions below. Mount the units on the DIN rail with mounting brackets and check that the output current is 20 mA or less.
1 to 2 Units: -10 to +55 °C, 3 to 10 Units: -10 to +50 °C, 11 to 16 Units: -10 to +45 °C

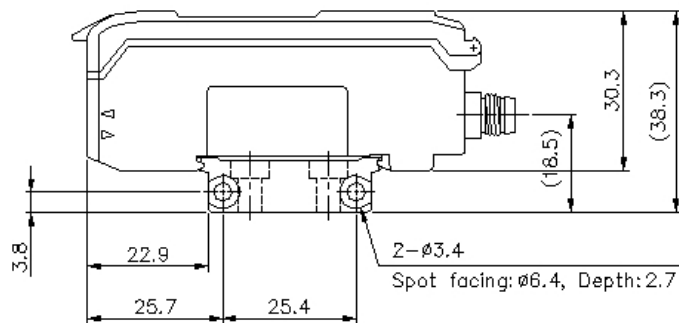
Dimensions

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

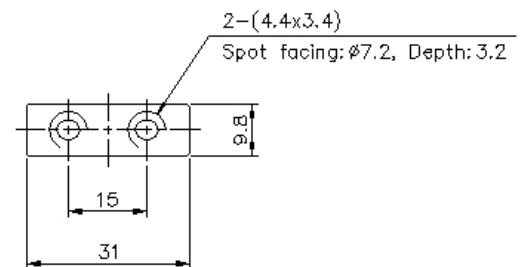
FS-V33C/V33CP



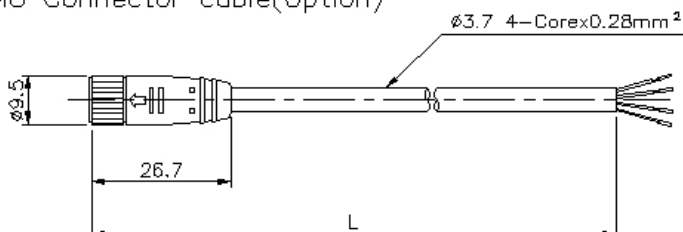
When mounting bracket is attached
OP-73880(Optional)



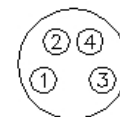
Back side of bracket



M8 Connector cable(Optional)



	L(m)
OP-73864	2
OP-73865	10

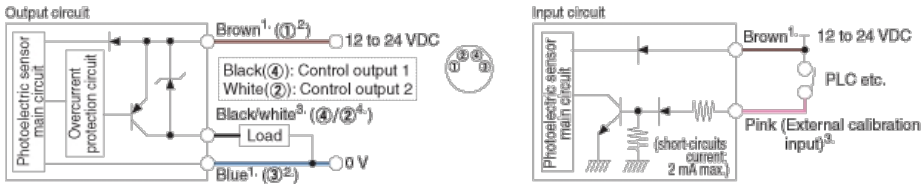


①	Brown 12-24V DC
②	White OUT2
③	Blue 0V
④	Black OUT1

I/O Circuit Connection diagram

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

I/O Circuit



1. FS-V33P only. 2. FS-V33CP only. 3. FS-V33P/34P only. 4. FS-V33CP/34CP only.