

# Easy Teach Fibreoptic Sensor Amplifier

[FV-18]

- Easy teach with 1 button click
- 5 modes response speed
- Red and green colour digital display



## 4 application modes for flexible selection

MEGA, SUPER, FINE, and HIGH-SPEED, by selecting the right mode, user can ensure optimal accuracy, speed, and reliability.

## Smart auto-tuning, effortless optimization

With a single flick of the button, the amplifier automatically identifies and select the optimal mode based on your application needs.

## Ultra-fast 25 $\mu$ s response time

Engineered for high-speed needs, ensuring instant and precise detection.

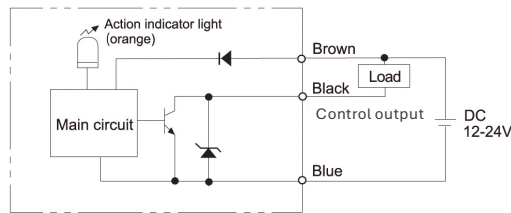


## Specifications

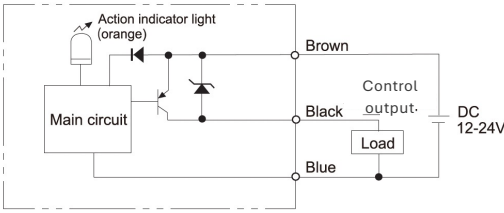
Model	NPN	FV-18N
	PNP	FV-18P
Detection method	Light intensity (area detection & automatic sensitive tracking function available)	
Light source	Red four-element LED	
Response time	P0: 25 $\mu$ s, P1: 50 $\mu$ s, P2: 100 $\mu$ s, P3: 200 $\mu$ s, P4: 800 $\mu$ s	
Output (Control output)	1 output (Open-collector, 24 V or less 100 mA or less )	
Residual voltage	NPN / PNP 1 V or less (output current: 10 mA or less)	
Display indicator	Operation: Red LED, dual-digital monitor: dual 7-digit display, threshold: 4-digit green LED indicator, current value: 4-digit red LED indicator.	
Current value range	0 to 9,999	
Operation mode	LIGHT-ON / DARK-ON (button selection)	
Timer function	OFF-DELAY / ON-DELAY / Single timer (switch selectable). Meter display selectable 0 to 9,999 ms	
Protection circuit	Reversed polarity, overcurrent protection, surge absorber	
Power supply	12 to 24 VDC (including 10% ripple (P-P) or less), class 2	
Power consumption	300 mW or less	
Ambient light	Incandescent lamp: 20,000 lux or less, sunlight: 30,000 lux or less	
Vibration resistance	10 to 55 Hz; double amplitude 1.5 mm; 2 hours each for X, Y, and Z axes	
Shock resistance	500 m/s <sup>2</sup> 3 times in the X and Y direction	
Ambient temperature	-20 to +55°C (No freezing)	
Weight	Approx. 92 g	

## Input / Output Circuits

FV-18N



FV-18P



## Dimensions

unit: mm

