Easy Teach High Speed Fibreoptic Amplifier

[FV-28]

- Ability to detect object as small as 1 µm
- Ultra-fast with 16 µs response time
- Easy teach with 1 button click

16 µs response time fast precision

Experience ultra-fast detection with the FV-28 series, boasting 16 µs response time.

Increased object detection to 1 µm sensitivity

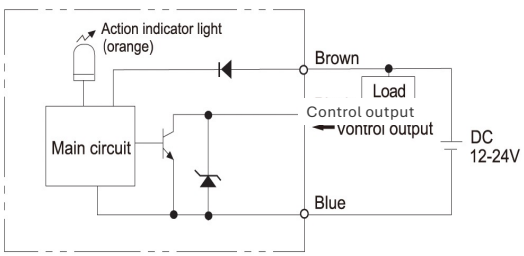
The next generation fibreoptic amplifier is engineered for seamless function composition, delivering unmatched sensitivity, detects object as small as 1µm.

Specifications

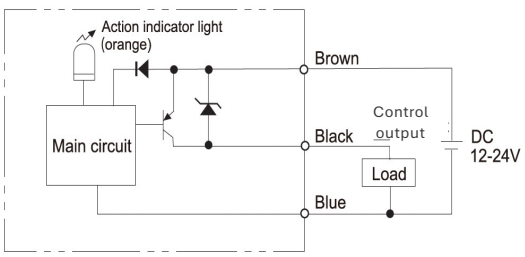
Model		
	NPN	FV-28N
	PNP	FV-28P
Detection method		Light intensity (area detection & automatic sensitive tracking function available)
Light source		Red four-element LED
Response time		P0: 16 µs, P1: 35 µs, P2: 200 µs, P3: 400 µs, P4: 800 µs, P5: 1.6 ms, P6: 6.4 ms
Output (Control output)		1 output (Open-collector, 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^2 3 times in the X and Y direction
Ambient temperature		-20 to +55°C (No freezing)
Weight		Approx. 92 g

Input / Output Circuits

FV-28N



FV-28P



Dimensions

unit: mm