

FS-V20R

Fiber Amplifier, Zero-line Expansion Unit, NPN

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

This model has been discontinued. Contact Us: 1-888-539-3623
Compliance with the certification standard is ensured as of the time of shipment from our company.

Recommended Replaceable Products: Digital Fiber Optic Sensor - FS-N40 series

Specifications

Model			FS-V20R
Type			0-line expansion unit
Light source LED			Red LED
Response time			250 µs (FINE) /500 µs (TURBO) /1 ms (SUPER TURBO) /4 ms (ULTRA TURBO) /500 µs (HIGH RESOLUTION) /50 µs (HIGH SPEED)
Output selection			Light-ON/Dark-ON selectable
Indicator lamp			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 65,520; Excess gain: 0 P to 999 P] Hold function: Possible to display both peak and bottom hold values. Bar LED monitor: Possible to display together with Current Value Excess gain displayed (85 to 115 % in 7 steps)
Detection mode			Light intensity/rising edge/falling edge
Shift function			Max. ±1,999 (variable)
Timer function	Mode		Timer OFF/OFF-delay timer/ON-delay timer/One-shot timer, selectable
	Variable range		1 to 500 ms [1 to 30 ms (in 1 ms increments), 30 to 50 ms (in 2 ms increments), 50 to 200 ms (in 10 ms increments), 200 to 500 ms (in 50 ms increments)]
	Accuracy		±10 % of the Preset Value
Control output			100 mA max. (40VDC max), Residual voltage: 1Vmax.
Rating	Power voltage		12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less
	Power consumption	Normal	S-APC OFF: 650 mW max.(27 mA max. at 24 VDC), S-APC ON: 720 mW max. (30 mA max. at 24 VDC)*1
		ECO half	S-APC OFF: 530 mW max.(22 mA max. at 24 VDC), S-APC ON: 660 mW max. (25 mA max. at 24 VDC)*1
		ECO all	S-APC OFF: 480 mW max.(20 mA max. at 24 VDC), S-APC ON: 550 mW max. (23 mA max. at 24 VDC)*1
Environmental resistance	Ambient light		Incandescent lamp: 20,000 lux max., Sunlight: 30,000 lux max.
	Ambient temperature		-10 to +55 °C 14 to 131 °F (No freezing)*2
	Relative humidity		35 to 85 % RH (No condensation)
	Vibration resistance		10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions

	Shock resistance	500 m/s², 3 times in each of the X, Y, and Z directions
Case material		Polycarbonate
Weight		Approx. 30 g (including 2-m cable)

*1 S-APC will be always turned ON when the high-resolution or high-speed mode is selected. S-APC is by default set to OFF in any other mode.
*2 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.
3 to 10 Units: –10 to +50 °C 14 to 122 °) 11 to 16 Units: –10 to +45 °C 14 to 113 °F

Dimensions

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

FS-V20

