



FR-SA1C

Short range amplifier unit with separate display M8 Connector Type Main Unit



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

Specifications

Model		FR-SA1C
Type		Short Separated Amplifier Unit M8 connector Main Unit
Response time		0.4 s, 1.5 s, 4 s (default value), 10 s
Output	No. of control outputs	Maximum 2
	Control output/auxiliary output	NPN/PNP open collector (switchable) Up to 30 VDC or less, max 50 mA for each Residual voltage of 1.4 V or less (50 mA or less) N.O./N.C. Switching type IO1 is switchable to IO-Link IO2 is switchable to analog output/external input
	Analog output	0–20 mA/4–20 mA Maximum load resistance 260 Ω (Response time: 0.2 s (90% response) after control output is confirmed)
External input		Short circuit current: 1.5 mA or less Input time: 500 ms or more
External communication		IO-Link v1.1/COM2
Analog output accuracy	Resolution	1 mm 0.04 ¹
	Zero accuracy	±0.1 mA (zero point = 4 mA) ¹
	Full-scale accuracy	±0.2 mA (full-scale = 20 mA) ¹
Expansion		—
Power supply	Power voltage	24 VDC +25%/–20% ^{2,3} including ripple, Class2 or LPS
	Power consumption	1880 mW or less (63 mA or less at 24 V)
Environmental resistance	Ambient temperature	–20°C to +55°C –4°F to +131°F (no freezing) ⁴
	Relative humidity	Up to 85% RH (no condensation)
Protection circuit		Protection against reverse power connection, power supply surges, output overcurrent protection, and output surges
Material		PC
Weight		Approx. 20 g 0.71 oz

¹ With a load resistance of 250 Ω, this value is guaranteed by KEYENCE inspection facilities. Errors may occur due to your environment.
² When expanding the system by one or more FR-SA2 units with the FR-S01 connected or by eight or more FR-SA2 units with the FR-SH01 connected, use a power voltage of 21.6 V or higher.
³ When expanding the system by four or more FR-SA0 units with the FR-S01 connected or by ten or more FR-SA0 units with the FR-SH01 connected, use a power voltage of 21.6 V or higher.
⁴ When expanding the system by 1 expansion unit, ensure the ambient temperature is 50°C 122°F or less. When expanding the system by 2 or more expansion units, ensure the ambient temperature is 45°C 113°F or less.

Dimensions

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

