

PROSAFE-RS FIO ANALOG I/O

Product Data Sheet

SAI143-S33/PRP S2

analog current input module

FUNCTION analog current input module	FAMILY ProSafe-RS FIO analog I/O	ORIGIN Japan	WEIGHT 0.34 kg
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Yokogawa ProSafe-RS SAI143-S33/PRP S2 is a analog current input module for the ProSafe-RS FIO analog I/O. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Input Channels	16, module-isolated
Rated Input	4 to 20 mA
Permissible Input	0 to 25 mA
Power-on Impedance	250 Ω plus protection-circuit voltage drop
Power-off Impedance	500 k Ω minimum
Rated Accuracy	$\pm 16 \mu\text{A}$
Update Frequency	40 ms
Temperature Drift	$\pm 16 \mu\text{A}$ per 10 °C
Transmitter Supply	16.15 V minimum at 20 mA; 26.4 V maximum at 0 mA
Wire Configuration	2-wire or 4-wire, set per channel

ADDITIONAL PRODUCT DATA

Withstand Voltage	1.5 kV AC for 1 minute
5 V Consumption	320 mA
24 V Consumption	550 mA
Communication option	Standard non-HART type
Insertion protection	/PRP prevention pin specified

OFFICIAL APPLICATIONS

- Safety current-input assemblies: ProSafe-RS Input Systems
- HART device communication paths: Field Device Management
- Two-wire transmitter circuits: Safety Instrumented Systems

SYSTEM COMPATIBILITY

Match SAI143-S33/PRP S2 to the installed ProSafe-RS FIO analog I/O, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Yokogawa official General Specifications](#)

<https://web-material3.yokogawa.com/GS32Q06K30-31E.pdf>

AMIKON PRODUCT SUPPORT

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