PROSAFE-RS FIO

Product Data Sheet

SDV541-S63/PRP S3

Digital current-source output module

OUTPUT CHANNELS	OUTPUT VOLTAGE	OUTPUT FORMAT	VOLTAGE DROP
16	**24 V DC**	**Current source**	**1 V maximum**

Yokogawa SDV541-S63/PRP S3 is a sixteen-channel current-source digital output module for ProSafe-RS FIO. It switches 24 V DC field loads and includes field wiring diagnostics. The -63 version uses a dedicated signal-cable adapter without explosion protection, with /PRP providing false-insertion prevention.

01 TECHNICAL DATA

Output channels	16
Output voltage	24 V DC
Output format	Current source
Voltage drop	1 V maximum
Field supply tolerance	24 V DC +20%/-10%
Required supply capacity	3.4 A minimum
Load current per channel	0.2 A maximum
Total output load	3.2 A maximum
Minimum channel load	35 mA
Load resistance	120 to 685 Ω, including wiring

02 ADDITIONAL PRODUCT DATA

OFF leakage	1.6 mA maximum
Output response	30 ms maximum
5 V bus consumption	300 mA maximum
24 V bus consumption	150 mA maximum
Isolation withstand, dedicated cable	500 V AC

03 PRODUCT FUNCTION

Each output supports up to 0.2 A, with a 3.2 A maximum across all sixteen outputs. The permitted load is 120 to 685 ohms including wiring, and the minimum load current is 35 mA. Output response is 30 ms maximum; the field supply requires at least 3.4 A capacity within its specified voltage range.

04 SYSTEM COMPATIBILITY

Provide 24 V DC +20%/-10% field power with at least 3.4 A capacity. Size each load between the 35 mA minimum and 0.2 A maximum, and keep the total output load within 3.2 A including inrush and current variation.

05 DOCUMENT BASIS

Yokogawa manufacturer documentation. Selected source pages: 1, 3, 4, 9, 14.

AMIKON PRODUCT SUPPORT

+86-18020776786 INFO@AMIKON.CN **AMIKONG.COM**