PROSAFE-RS FIO

Product Data Sheet

SDV144-S63/PRP S4

Digital contact input module

INPUT CHANNELS	ON CONTACT RESISTANCE	OFF CONTACT RESISTANCE	INPUT CURRENT
16	**1 kΩ maximum**	**100 kΩ minimum**	**6 mA ±20% at 24 V DC**

Yokogawa SDV144-S63/PRP S4 is a sixteen-channel contact input module for ProSafe-RS FIO. It accepts no-voltage field contacts, supports dual-redundant configurations and uses the -63 dedicated signal-cable interface adapter with a false-insertion prevention pin.

01 TECHNICAL DATA

Input channels	16
ON contact resistance	1 kΩ maximum
OFF contact resistance	100 kΩ minimum
Input current	6 mA ±20% at 24 V DC
Field supply	24 V DC +20%/-10%, style S4
Required supply capacity	200 mA
Contact current rating	10 mA minimum
Maximum transient input	30.0 V DC
Input response	40 ms maximum
5 V bus consumption	290 mA maximum

02 ADDITIONAL PRODUCT DATA

24 V bus consumption	140 mA maximum
Isolation withstand, dedicated cable	500 V AC
Open-circuit diagnostic element	SCB100
Short-circuit diagnostic element	SCB110
Operating temperature	-20 to +70 °C

03 PRODUCT FUNCTION

At 24 V DC the input current is 6 mA ±20%, with a maximum response time of 40 ms. Style S4 permits a field supply of 24 V DC +20%/-10%; optional field wiring diagnostics use SCB100 and SCB110 elements near the field contacts. The style S4 internal fuse is not replaceable.

04 SYSTEM COMPATIBILITY

Provide a 24 V DC field supply within the S4 tolerance of +20%/-10% and with at least 200 mA capacity. The contact circuit must meet the ON/OFF resistance thresholds, and its rating must support 24 V operation and at least 10 mA.

05 DOCUMENT BASIS

Yokogawa manufacturer documentation. Selected source pages: 1, 2, 8, 12.

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