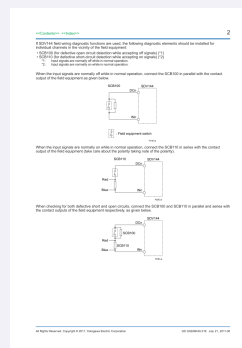


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

SDV144-S33/PRP S4

digital input module



PRODUCT	SDV144-S33/PRP S4
FAMILY	ProSafe-RS FIO digital I/O
FUNCTION	digital input module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Yokogawa ProSafe-RS documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

Input Channels	16, module-isolated
Input Signal	No-voltage contact
ON Resistance	1 k Ω maximum
OFF Resistance	100 k Ω minimum
Input Current	6 mA $\pm$ 20%
Contact Rating	24 V DC +20%/-10%, 10 mA minimum

02 PREPARATION AND CONNECTION

- Confirm the complete SDV144-S33/PRP S4 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

OFFICIAL INSTALLATION REFERENCE

[<<Contents>>](#) [<<Index>>](#)

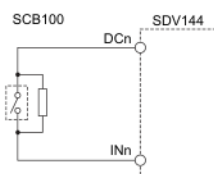
2

If SDV144 field wiring diagnostic functions are used, the following diagnostic elements should be installed for individual channels in the vicinity of the field equipment:

- SCB100 (for defective open circuit detection while accepting off signals) (*1)
- SCB110 (for defective short-circuit detection while accepting on signals) (*2)

*1: Input signals are normally off while in normal operation.
*2: Input signals are normally on while in normal operation.

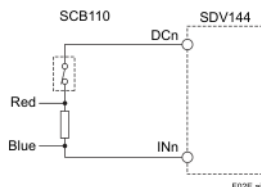
When the input signals are normally off while in normal operation, connect the SCB100 in parallel with the contact output of the field equipment as given below.



 : Field equipment switch

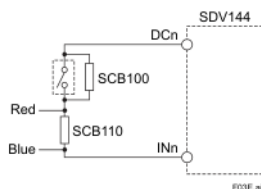
F01E.a

When the input signals are normally on while in normal operation, connect the SCB110 in series with the contact output of the field equipment (take care about the polarity taking note of the polarity).



F02E.a

When checking for both defective short and open circuits, connect the SCB100 and SCB110 in parallel and series with the contact outputs of the field equipment respectively, as given below.



F03E.a

04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Yokogawa official General Specifications
Product record	SDV144-S33/PRP S4
Manufacturer	Yokogawa ProSafe-RS
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM