PROSAFE-RS SAFETY NODE

Product Data Sheet

SSB401-13 S1

ESB Bus Interface Module

ELECTRICAL BUS	HOST NODE	NODE INTERFACE REDUNDANCY	ESB CABLE
ESB	**SNB10D**	**2 SSB401 modules**	**YCB301**

Yokogawa SSB401-13 S1 is the ESB bus interface module used in the SNB10D ProSafe-RS safety node. It connects the remote I/O node to the electrical ESB path from a safety control unit or the appropriate optical repeater arrangement. The SNB10D configuration uses two SSB401 modules for dual-redundant bus connection.

01 TECHNICAL DATA

Electrical bus	ESB
Host node	SNB10D
Node interface redundancy	2 SSB401 modules
ESB cable	YCB301
Electrical bus length	Less than 10 m for each bus
Connector screw torque	Approximately 0.3 Nm
Termination selection	Branch connector with or without built-in terminator
Node-address DIP switches	6 positions
Node addresses with SCSP1/SCSV1	2 to 10
Node addresses with SCSP2	2 to 14

Yokogawa IM 32Q06C10-31E; SSB401 node configuration, ESB termination and maintenance.; Yokogawa IM 32Q06C10-31E, section

02 ADDITIONAL PRODUCT DATA

Reserved control-unit address	1
Node-address parity	Odd parity
Address switch bit 2	Fixed to 0
Normal self-diagnosis indication	STATUS on
I/O activity indicators	SEL flashes on transmission; RSP flashes on reception

03 PRODUCT FUNCTION

The hardware manual specifies YCB301 electrical ESB cable and a total electrical length below 10 m for each bus. Branch connectors are available with or without a built-in terminator, and the end of each electrical bus must use the correct terminated arrangement. Node addressing and the independent bus 1/bus 2 paths are retained during replacement.

04 SYSTEM COMPATIBILITY

Use the specified ESB cable and keep each electrical path below the stated 10 m total length. Select the branch connector with a built-in terminator at the end of the bus; use the unterminated branch arrangement where the bus continues.

05 REFERENCE

Yokogawa IM 32Q06C10-31E; SSB401 node configuration, ESB termination and maintenance.; Yokogawa IM 32Q06C10-31E, section 4.4 and Table 4.4-1.

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