

FIELD INSTALLATION QUICK GUIDE

Installation Instructions

ABB CI830 3BSE013252R1

Profibus-Dp Communication Interface

[illegible]

PRODUCT	CI830 3BSE013252R1
FAMILY	ABB S800 I/O field communication
FUNCTION	Profibus-Dp Communication Interface
STATUS	Verify exact configuration

Prepared by Amikon Limited from ABB manufacturer documentation. This guide does not replace the complete manufacturer manual, site procedure, hazardous-area drawing, or approval document.

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CONFIRM THE ORDERED CONFIGURATION

Article Number	3BSE013252R1
Protocol	PROFIBUS-DP
Maximum Bus Rate	12 Mbit/s
Supply Voltage	24 V DC ±20%
Typical Supply Current	50 mA
Typical Power Consumption	1.2 W
Field-to-Bus Isolation	500 V DC

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MOUNTING AND CONNECTION

- Configure the CI830 station address and bus rate to match the documented PROFIBUS-DP master and approved S800 I/O database.
- Restore the module order, termination units, power supervision and ModuleBus diagnostics before enabling field control.
- Confirm typical supply current: 50 mA.
- Complete the documented acceptance check: Check termination, shielding, node diagnostics and cyclic I/O exchange at the selected data rate before process release.

MANUFACTURER INSTALLATION REFERENCE

Official manufacturer reference reproduced from ABB manufacturer documentation. Use the current source document and all referenced drawings and notes for installation.

5.3.2.4 S800 I/O Digital output modules

Name	Short Description	Article No.
DO810	Digital Output, 24 VDC, 2x8 channels	3BSE008510R1
	0.5 A, Short circuit proof, Rated isolation 50 V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	
DO814	Digital Output, current sinking, 2x8 channels	3BUR001455R1
	0,5 A, shortcut circuit proof, Rated isolation 50 V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU838.	
DO815	Digital Output, 24 VDC, 2x4 channels	3BSE013258R1
	2.0 A short circuit proof. Rated isolation 50 V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833.	
DO818	Digital Output, 24 VDC, 2x16 channels	3BSE069053R1
	0.5A, Short circuit proof, Rated isolation 50V Use Module Termination Unit TU818, TU819, TU830.	
DO820	Digital Output, Relay, normal open, 8x1 channel	3BSE008514R1
	24-230 VAC 3 A, cos phi>0.4, d.c. 42 W, Rated isolation 250 V. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837.	
DO821	Digital Output, Relay, normal closed, 8x1 channel	3BSE013250R1
	24-230 VAC 3 A, cos phi>0.4, d.c. 42 W, Rated isolation 250 V. Use Module Termination Unit TU811, TU813, TU831, TU836, TU837.	
DO828	DO828 Digital Output, Relay Normally Open, 16x1 channel	3BSE069055R1
	5-250VAC and 5-125VDC, max 2A, Rated isolation 250V. Use Module Termination Unit TU851.	
DO840	Digital Output, redundant or single, 2x8 channels	3BSE020838R1
	24 VDC, 0.5 A. Advanced On-board diagnostics. Rated isolation 50 V. Use Module Termination Unit TU810, TU812, TU814, TU830, TU833, TU842, TU843.	
DO890	Digital Output, 4x1 channel with Intrinsic Safety Interface	3BSC690074R1
	Rated isolation 50 V. Use Module Termination Unit TU890 or TU891.	

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CABLE ROUTING AND CONNECTION

- Restore the module order, termination units, power supervision and ModuleBus diagnostics before enabling field control.
- Restore the documented field-to-bus isolation and verify 500 V DC.
- Support all cables, connectors or mechanical interfaces without strain.
- Inspect shields, earth paths, fasteners and adjacent hardware before service.

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INITIAL SYSTEM CHECKS

- Confirm exact model identity and compatible system components before energizing.
- Check the saved configuration against the controlled site requirements.
- Check termination, shielding, node diagnostics and cyclic I/O exchange at the selected data rate before process release.
- Record the installed model, baseline values and final status.

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CONTROLLED DOCUMENTS

Official source	ABB manufacturer documentation
Product record	CI830 3BSE013252R1
Manufacturer	ABB
Support	INFO@AMIKON.CN