

ABB

CI810B 3BSE020520R1

Technical Reference

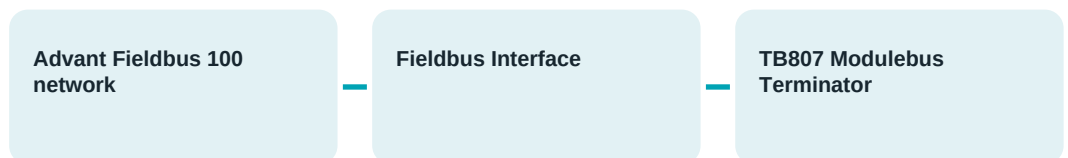
ABB CI810B 3BSE020520R1 is an S800 I/O field communication interface with two Advant Fieldbus 100 twisted-pair connections.

FAMILY S800 I/O and Advant Fieldbus 100

DOCUMENT Technical Reference

SOURCE 3BSE062937_E; 3BSE000506-600

SYSTEM FLOW



SELECTED RELATED PRODUCTS

01	ABB PM590-ETH-1SAP150000R...	OPEN	02	ABB 3HAC043569-004	OPEN
03	ABB 3HAC5954-1	OPEN	04	ABB 3BHE022293R0101-PCD23...	OPEN
05	ABB DSQC332	OPEN	06	ABB RPBA-01-3ABD64606859	OPEN

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EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



CI810B 3BSE020520R1

Technical Reference

Exact-model identity and parameters

Complete model	CI810B 3BSE020520R1	Included connector	One power supply connector
Manufacturer	ABB	Terminal blocks	Two terminal blocks
Product family	S800 I/O and Advant Fieldbus 100	AF100 connector	3BSC840105R1
Product ID	3BSE020520R1	Loaded system software	Version 1.5
ABB designation	CI810B	Media capability	Full redundant-media support
Interface role	S800 I/O field communication interface	Network capability	Long-distance AF100 support
Fieldbus media	Two AF100 twisted-pair connections	Environmental class	ISA-S71.04 G3 for FCI modules
Included terminator	One TB807 Modulebus Terminator	Exchange identity	EXC3BSE020520R1

EVIDENCE BOUNDARY

Retain the complete CI810B 3BSE020520R1 identity, loaded software level, AF100 media arrangement and S800 I/O station record before replacement.

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Technical Reference

System role and engineering applications

ROLE 1

Links S800 I/O to Advant Fieldbus 100

ROLE 2

Provides two twisted-pair AF100 connections

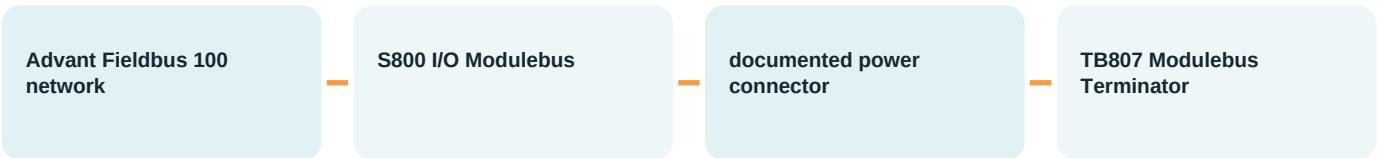
ROLE 3

Includes the TB807 Modulebus terminator

ROLE 4

Ships with system software version 1.5 loaded

SIGNAL / SERVICE PATH



S800 I/O field interface

Connects the documented S800 I/O station to an AF100 control network.

Redundant fieldbus media

Supports an engineered redundant AF100 media arrangement where the installed design requires it.

Long-distance network segment

Provides the CI810B capability described for extended AF100 communication distances.

Controlled module renewal

Retains the exact product ID, connector set, software level and Modulebus termination during replacement.

Technical Reference

Field-work sequence and acceptance controls

01 Verify CI810B 3BSE020520R1 and the S800 I/O station position before work

Verify CI810B 3BSE020520R1 and the S800 I/O station position before work.

02 Place the connected AF100 segment and process in the approved maintenance state

Place the connected AF100 segment and process in the approved maintenance state.

03 Isolate the documented supply before removing the power connector

Isolate the documented supply before removing the power connector.

04 Record both AF100 twisted-pair connections and their redundancy assignment

Record both AF100 twisted-pair connections and their redundancy assignment.

05 Protect the terminal blocks, AF100 connector and keyed Modulebus interfaces

Protect the terminal blocks, AF100 connector and keyed Modulebus interfaces.

06 Confirm the TB807 terminator remains at the documented end position

Confirm the TB807 terminator remains at the documented end position.

07 Restore power only after checking polarity, shielding and Modulebus seating

Restore power only after checking polarity, shielding and Modulebus seating.

08 Verify communication, I/O quality and redundancy status before acceptance

Verify communication, I/O quality and redundancy status before acceptance.

RELATED SERVICE REFERENCES

01	ABB RDCO-02C-3ABD64606956	OPEN	02	ABB 3BHE022294R0101-GFD233-A101	OPEN
03	ABB DSTD110A	OPEN			

ACCEPTANCE RECORD

Retain the final CI810B 3BSE020520R1 identity, connection, configuration, diagnostic and controlled-response result.

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CI810B 3BSE020520R1

Model-specific questions and decisions

1 What network role does ABB CI810B 3BSE020520R1 perform?

It is the S800 I/O field communication interface for an Advant Fieldbus 100 station.

2 How many AF100 media connections are provided by ABB CI810B 3BSE020520R1?

Two twisted-pair AF100 connections are provided, allowing the documented media arrangement to be retained.

3 Which Modulebus item is included with ABB CI810B 3BSE020520R1?

The package includes one TB807 Modulebus Terminator for the station boundary.

4 What software level is loaded in ABB CI810B 3BSE020520R1?

The product record lists system software version 1.5 as loaded.

5 Which AF100 connector is associated with ABB CI810B 3BSE020520R1?

The listed AF100 connector is 3BSC840105R1; preserve its keyed interface during service.

6 Can ABB CI810B 3BSE020520R1 support redundant fieldbus media?

Yes. CI810B supports full redundant media, subject to the installed AF100 engineering design.

7 What should be recorded before replacing ABB CI810B 3BSE020520R1?

Capture both AF100 paths, terminal assignments, software level, Modulebus position and terminator location.

8 What acceptance checks suit ABB CI810B 3BSE020520R1?

Confirm station communication, I/O quality, both configured media paths and a clean diagnostic state.

RELATED MODEL REFERENCES

01	ABB DSQC346G	OPEN	02	ABB RRIA-01	OPEN
03	ABB INTKM01	OPEN			

SOURCE IDENTIFIER

ABB System 800xA Product Catalog and Advant Fieldbus 100 User Manual | 3BSE062937_E; 3BSE000506-600

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Technical Reference

Related products and document navigation

These links are navigation aids to other Apter Power product pages. They are not technical evidence for this product.

01	ABB PFTK101A-YM222001-UC	OPEN	02	ABB 3BSE004725R1-DSTD196	OPEN
03	ABB DSTY101-57120001-KY	OPEN	04	ABB SPA-ZC-402	OPEN
05	ABB SPA-ZC-400	OPEN	06	ABB SDCS-PIN-H51	OPEN
07	ABB NTAC-02	OPEN	08	ABB NISA-03	OPEN
09	ABB NAOM01	OPEN	10	ABB MZ03	OPEN
11	ABB MPRC-086349-002	OPEN	12	ABB MM21	OPEN

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