

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB TB850 3BSC950193R1

CEX-Bus Extension Planning Guide

ABB S800 I/O CEX-Bus Extension Terminator



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB TB850 3BSC950193R1
Reference number	TB850
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/tb850-3bsc950193r1>

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CEX-Bus extension path

ABB TB850, article number 3BSC950193R1, is a CEX-Bus terminator for AC 800M controller communication-bus installations. ABB specifies a 25-pin DB25P male connector and screw fixing. Its specific function is to terminate the CEX-Bus at the end of the installed bus. ABB states that a TB850 must always be installed on the last unit on the CEX-Bus; it is therefore a bus accessory and does not measure or process field analog or digital I/O signals.

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|----|--|
| 01 | Its specific function is to terminate the CEX-Bus at the end of the installed bus. ABB states that a TB850 must always be installed on the last unit on the CEX-Bus; it is therefore a bus accessory and does not... |
| 02 | ABB includes two TB850 terminators in the BC810K02 CEX-Bus interconnection package and in the BC820K02 CEX-Bus interconnection package. Those packages also contain their corresponding interconnection/baseplate... |
| 03 | The product is used in System 800xA and Compact Product Suite AC 800M controller cabinets where communication-interface units extend the CEX-Bus. Its role is correct physical bus termination, not process... |

Bus and controller boundaries

- | | |
|----|---|
| 01 | Status: confirmed |
| 02 | Lifecycle status: formal ABB lifecycle phase not published in the cited static material |
| 03 | Lifecycle evidence: The item remains listed in the ABB Ability System 800xA 6.2 Product Catalog and the Compact Product Suite Product Catalog available in 2025/2026. |

Bus-extension planning checks

01	Verify both TB850 and article number 3BSC950193R1 on the physical label before installation.
02	Install the TB850 only at the last unit on the CEX-Bus, as ABB explicitly requires.
03	Do not substitute TB851: TB850 is DB25P male, while ABB lists TB851 as DB25S female for a different termination position/topology.
04	Secure the screw fixing and inspect the DB25 connector for damage before energizing the controller system.
05	Follow the current ABB AC 800M hardware manual and the project-specific CEX-Bus topology; do not add extra terminators or omit the required end terminator.

Identity and release controls

Status	confirmed
Publish Allowed	Yes
Exact Match Basis	ABB's current System 800xA and Compact Product Suite catalogs map article number 3BSC950193R1 to TB850 CEX-Bus Terminator.

Official ABB sources

ABB Ability System 800xA 6.2 Product Catalog	https://library.e.abb.com/public/69ed5bfd7f8b4303a7095d25945f8892/7PAA010273%20en%20H%20System%20800xA%206.2%20Product%20Catalog.pdf
ABB Compact Product Suite Product Catalog	https://library.e.abb.com/public/39b06d185c574f51a62d566a3d278898/3BSE062980%20en%20L%20Compact%20Product%20Suite%20Product%20Catalog.pdf
ABB official product page 3BSC950193R1	https://new.abb.com/products/3BSC950193R1/3bsc950193r1