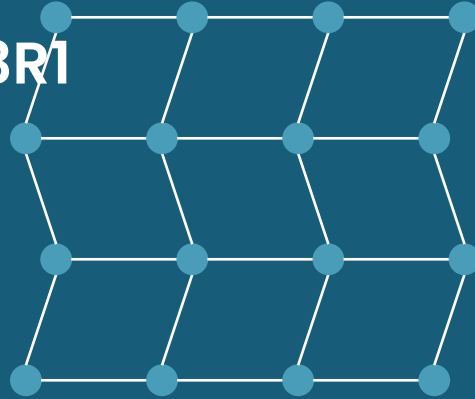


MANUFACTURER-SOURCE TECHNICAL REFERENCE

# ABB TB850 3BSC950193R1

## Product Reference

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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## Product role and published parameters

### WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

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...

| Published field   | Manufacturer-published value or verified identity note |
|-------------------|--------------------------------------------------------|
| Manufacturer      | ABB                                                    |
| Article number    | 3BSC950193R1                                           |
| Type              | TB850                                                  |
| Product function  | CEX-Bus terminator                                     |
| Connector         | 25-pin DB25P male                                      |
| Fixing            | Screw fixing                                           |
| Required position | Last unit on the CEX-Bus                               |

## System function and signal path

|    |                                                                                                                                                                                                   |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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...     |
| 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...        |
| 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... |

## Applications, answers, and official sources

1 CEX-Bus end termination: Installed on the last unit of an AC 800M CEX-Bus, exactly as required by ABB.

2 BC810 interconnection assemblies: Used as one of the two TB850 terminators supplied in ABB's BC810K02 CEX-Bus interconnection package.

3 BC820 redundant-controller interconnection: Used as one of the two TB850 terminators supplied in ABB's BC820K02 CEX-Bus interconnection package.

4 System 800xA or Compact AC 800M cabinets: Provides the specified end termination in controller communication-bus layouts; it is not an I/O module.

## Frequently asked questions

|                                                  |                                                                                                                     |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| What is ABB TB850 3BSC950193R1?                  | It is ABB's CEX-Bus terminator for AC 800M hardware.                                                                |
| Where is the TB850 installed?                    | ABB says it must always be installed on the last unit on the CEX-Bus.                                               |
| Which connector does TB850 use?                  | A 25-pin DB25P male connector with screw fixing.                                                                    |
| Does TB850 read analog or digital field signals? | No signal-processing function is stated. It is a CEX-Bus termination accessory, not an I/O module.                  |
| Is TB850 the same as TB851?                      | No. ABB lists TB850 as DB25P male and TB851 as DB25S female; their order codes and intended termination use differ. |
| Is TB850 included with BC810K02?                 | Yes. ABB lists two TB850 terminators in the BC810K02 package.                                                       |

## Official ABB sources

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