

CI853K01 3BSE018103R1

Dual RS-232C communication interface package

Exact orderable package

ABB article 3BSE018103R1 comprises the CI853 communication interface and the TP853 baseplate for an AC 800M controller.

System role

CI853 adds two RS-232C channels to the processor unit. COM1 and COM2 can be configured for different supported protocols; their settings remain tied to the controller application.

Interface boundary

The two channels use RJ45 connectors on TP853 and are not galvanically isolated. CI853 receives its operating power from the processor through the CEX-Bus.

Service indication

The red, green and yellow LEDs distinguish error, run and traffic indications. Hot swap is supported, subject to the approved controller and plant maintenance procedure.

Document identity: ABB CI853K01 / 3BSE018103R1. Confirm the installed controller architecture and both serial channel configurations before service.

Verified interface parameters

CI853 module and TP853 baseplate, matched to the orderable CI853K01 package

Article number	3BSE018103R1
Package	CI853 interface and TP853 baseplate
Port type	Two unisolated RS-232C channels
Physical connectors	Two RJ45 sockets on TP853
Protocol selection	Software, application and license dependent
Supported protocol families	Modbus, COMLI, Siemens 3964R, custom
Speed selection	75 to 19200 baud; protocol restrictions apply
Port assignment	COM1 and COM2 independently configurable
Galvanic isolation	Not provided
Module power	AC 800M processor via CEX-Bus
Typical current	100 mA
Typical power dissipation	2.4 W
Status indication	Red error / green run / yellow traffic
Hot swap	Supported

Speed and protocol behavior depend on installed software, licenses and the selected application. Do not substitute another CI-series interface based on connector appearance alone.

Signal and configuration path

Two independently configured serial channels share the documented AC 800M host

AC 800M processor to CEX-Bus

The processor powers CI853 through the CEX-Bus. Check the actual controller position and the approved communication-interface arrangement before replacement.

CI853 to TP853

The CI853 module operates with the TP853 baseplate. The package identity must be confirmed as CI853K01 rather than treating a loose CI853 or TP853 as a complete kit.

TP853 to serial devices

COM1 and COM2 each use an RJ45 RS-232C connection. Select the protocol and baud rate for each link; the two ports can serve different configured serial functions.

Diagnostics

Review the red error, green run and yellow traffic LEDs together with controller and field-device diagnostics. Verify end-to-end message exchange on both assigned channels.

Protocol boundary

Modbus, COMLI, Siemens 3964R and custom protocols are documented possibilities. Installed software, application and licenses determine the available port configuration.

Technical questions

The same model-specific answers used on the product page

Which hardware is included in ABB CI853K01 3BSE018103R1?

The package contains the CI853 communication interface and TP853 baseplate; its ABB article number is 3BSE018103R1.

Can COM1 and COM2 use different protocols?

Yes. The two RS-232C ports may use different configured protocols, subject to software, license and application restrictions.

Where do the two serial cables connect?

Each channel connects through one of the two RJ45 connectors on the TP853 baseplate.

Which speed range is selectable on CI853?

The listed selectable speeds span 75 to 19200 baud; the chosen protocol may restrict the available selection.

Are the CI853 ports galvanically isolated?

No. Both RS-232C ports are non-isolated, so the field wiring and grounding arrangement must account for that boundary.

Does the package require an external module supply?

No additional external module supply is required; the AC 800M processor powers CI853 via the CEX-Bus.

What do the CI853 status LEDs show?

Red indicates error, green indicates run, and yellow indicates traffic; compare them with controller and port diagnostics.

Can CI853 be replaced under hot-swap procedures?

Hot swap is supported, but follow the approved controller and plant procedure and verify both serial channels after replacement.

Related AC 800M components

Navigation only: these pages are not evidence for CI853K01 parameters

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MANUFACTURER SOURCE RECORD

ABB System 800xA Product Catalog, 3BSE091397 en S, p. 51; ABB AC 800M Controller Hardware Product Guide, 3BSE036352-610 A, sections 4.7.1 and 6.6.

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CI853K01