

TU830V1

S800 I/O extended module termination unit

Sixteen-channel S800 I/O field termination and power distribution

PRODUCT SNAPSHOT

BRAND

ABB

FAMILY

ABB Advant OCS and S800 I/O termination

PART

TU830V1

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PRODUCT OVERVIEW

Sixteen-channel S800 I/O field termination and power distribution

1

Terminates sixteen S800 I/O channels

2

Provides fifty-six process connections

3

Accepts solid and stranded field conductors

4

Supports either mounting direction at rated temperature

SYSTEM COMPONENTS

ABB S800 I/O module

ModuleBus base arrangement

field signal and power conductors

channel fuse-group distribution

TECHNICAL NOTE

Verify TU830V1 and article number 3BSE013234R1, paired S800 I/O module, terminal torque, conductor size, fuse grouping and every channel identity before removal; after installation, test insulation, continuity and assigned I/O response.

TECHNICAL DATA

PARAMETER	VALUE
Article number	3BSE013234R1
Type designation	TU830V1
Terminal block type	Extended MTU
Channels	16
Rated voltage	50 V
Process connections	56
I/O arrangement	Single I/O
Maximum current per channel	2 A
Maximum process-connection current	5 A

PARAMETER	VALUE
Solid conductor	0.2 to 4 mm ²
Stranded conductor	0.2 to 2.5 mm ² ; 24 to 12 AWG
Terminal torque	0.5 to 0.6 Nm
Strip length	7 mm
Dielectric test	500 V AC
Fuse groups	6.3 A
Operating temperature	0 to 55 degC
Storage temperature	-40 to +70 degC
Relative humidity	5 to 95%

ENGINEERING NOTE

Verify TU830V1 and article number 3BSE013234R1, paired S800 I/O module, terminal torque, conductor size, fuse grouping and every channel identity before removal; after installation, test insulation, continuity and assigned I/O response.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Siemens 6SE7031-7HG84-1JC2	Related industrial automation product	View Siemens 6SE7031-7HG84-1JC2 page
Siemens 6SE7031-7HG84-1JC1	Related industrial automation product	View Siemens 6SE7031-7HG84-1JC1 page
Anybus AB9001-B	Related industrial automation product	View Anybus AB9001-B page
ABB RPBA-01-3ABD64606859	Related industrial automation product	View ABB RPBA-01-3ABD64606859 page
Bently Nevada 330877-080-37-00	Related industrial automation product	View Bently Nevada 330877-080-37-00 page
Bently Nevada 330909-00-80-10-02-00	Related industrial automation product	View Bently Nevada 330909-00-80-10-02-00 page
Bently Nevada 330703-000-050-10-02-00	Related industrial automation product	View Bently Nevada 330703-000-050-10-02-00 page
Bently Nevada 330703-000-060-10-02-00	Related industrial automation product	View Bently Nevada 330703-000-060-10-02-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

S800 I/O cabinet termination

Terminates sixteen S800 I/O channels

Process-signal marshalling

Provides fifty-six process connections

Field-power distribution

Accepts solid and stranded field conductors

Termination-unit replacement

Supports either mounting direction at rated temperature

PRODUCT PRECAUTIONS

- 1 Verify the complete TU830V1 marking and its assigned ABB Advant OCS and S800 I/O termination position before work.
- 2 Place the connected s800 i/o cabinet termination process in the approved maintenance state.
- 3 Isolate applicable power and sixteen-channel s800 i/o field termination and power distribution field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed ABB S800 I/O module and ModuleBus base arrangement against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended process-signal marshalling function and retain the final test result.

ENGINEER FAQ

Q1 Does TU830V1 match ABB S800 I/O module in a S800 I/O cabinet termination installation?

Verify the complete TU830V1 marking, the documented ABB Advant OCS and S800 I/O termination position and the installed ABB S800 I/O module before fitting the assembly.

Q3 Which ABB Advant OCS and S800 I/O termination records should be captured before removing TU830V1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with TU830V1 before disconnection.

Q5 Which ModuleBus base arrangement condition should be checked when TU830V1 reports an abnormal state?

Check the ModuleBus base arrangement supply, seating and connection first, then compare channel diagnostics with the recorded TU830V1 baseline.

Q7 What maintenance evidence is required after TU830V1 is used for Field-power distribution?

Retain the nameplate record, corrective action, final diagnostics and a controlled field-power distribution functional-test result for TU830V1.

Q2 How should TU830V1 be wired when it must terminates sixteen s800 i/o channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for TU830V1; then continuity-test the affected path.

Q4 What controlled test confirms that TU830V1 can provides fifty-six process connections?

Apply the approved field or simulated stimulus, observe the ABB Advant OCS and S800 I/O termination indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can TU830V1 be moved directly into Process-signal marshalling without validating channel fuse-group distribution?

No. Confirm the channel fuse-group distribution, revision, connection scheme and ABB Advant OCS and S800 I/O termination configuration before transferring TU830V1 to that duty.

Q8 How should TU830V1 be returned to service in Termination-unit replacement?

Restore power under control, verify accepts solid and stranded field conductors, exercise the intended signal path and release TU830V1 only after the ABB Advant OCS and S800 I/O termination remains in its approved operating state.

SOURCE ABB Compact Product Suite hardware selector and TU830V1 technical data | TU830V1 / 3BSE013234R1

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