7EX290.50-1

System 2003 X2X Link bus controller

Electrically isolated X2X Link process data

PRODUCT SNAPSHOT

BRAND
B&R

FAMILY
B&R System 2003 expansion

PART
7EX290.50-1

ORIGIN / HS
Austria / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com

PRODUCT OVERVIEW

Electrically isolated X2X Link process data

1. Provides one X2X Link interface
2. Uses a 24 V DC supply
3. Electrically isolates the expansion link
4. Connects a System 2003 station to X2X

SYSTEM COMPONENTS

- System 2003 rack
- separate terminal block
- X2X Link cable
- upstream B&R controller

TECHNICAL NOTE

Record X2X node and rack identities, match the separately ordered terminal block and verify all remote I/O after controlled startup.

TECHNICAL DATA

PARAMETER	VALUE
Function	X2X Link bus controller
Supply	24 V DC
Power consumption	3.2 W

PARAMETER	VALUE
X2X interfaces	1
Isolation	X2X Link electrically isolated
Terminal block	Ordered separately

ENGINEERING NOTE

Record X2X node and rack identities, match the separately ordered terminal block and verify all remote I/O after controlled startup.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
TC-PRR021	Related industrial automation product	**View TC-PRR021 page**
51402497-200	Related industrial automation product	**View 51402497-200 page**
51403776-100	Related industrial automation product	**View 51403776-100 page**
FC-TSHART-1620M	Related industrial automation product	**View FC-TSHART-1620M page**
10018-E-1	Related industrial automation product	**View 10018-E-1 page**
51305072-600	Related industrial automation product	**View 51305072-600 page**
51304831-100	Related industrial automation product	**View 51304831-100 page**
51402573-250	Related industrial automation product	**View 51402573-250 page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

System 2003 remote I/O

Provides one X2X Link interface

X2X migration interface

Uses a 24 V DC supply

Electrically isolated expansion link

Electrically isolates the expansion link

Bus-controller replacement

Connects a System 2003 station to X2X

PRODUCT PRECAUTIONS

1. Verify the full 7EX290.50-1 marking and its assigned B&R System 2003 expansion position before work.
2. Place the connected machine or process in the approved maintenance state.
3. Isolate the applicable supply and electrically isolated x2x link process data field energy before disconnecting conductors.
4. Record connector, conductor, address and software identities before removal.
5. Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
6. Confirm the installed System 2003 rack and separate terminal block against the approved project.
7. Restore power in a controlled sequence and review device, network and host diagnostics.
8. Prove the intended system 2003 remote i/o function and retain the final test result.

ENGINEER FAQ

Q1 Does 7EX290.50-1 match System 2003 rack in a System 2003 remote I/O installation?

Verify the complete 7EX290.50-1 marking, the documented B&R System 2003 expansion position and the installed System 2003 rack before fitting the assembly.

Q2 How should 7EX290.50-1 be wired when it must provides one x2x link interface?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 7EX290.50-1; then continuity-test the affected path.

Q3 Which B&R System 2003 expansion records should be captured before removing 7EX290.50-1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 7EX290.50-1 before disconnection.

Q4 What controlled test confirms that 7EX290.50-1 can uses a 24 v dc supply?

Apply the approved field or simulated stimulus, observe the B&R System 2003 expansion indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which separate terminal block condition should be checked when 7EX290.50-1 reports an abnormal state?

Check the separate terminal block supply, seating and connection first, then compare channel diagnostics with the recorded 7EX290.50-1 baseline.

Q6 Can 7EX290.50-1 be moved directly into X2X migration interface without validating upstream B&R controller?

No. Confirm the upstream B&R controller, revision, connection scheme and B&R System 2003 expansion configuration before transferring 7EX290.50-1 to that duty.

Q7 What maintenance evidence is required after 7EX290.50-1 is used for Electrically isolated expansion link?

Retain the nameplate record, corrective action, final diagnostics and a controlled electrically isolated expansion link functional-test result for 7EX290.50-1.

Q8 How should 7EX290.50-1 be returned to service in Bus-controller replacement?

Restore power under control, verify electrically isolates the expansion link, exercise the intended signal path and release 7EX290.50-1 only after the B&R System 2003 expansion remains in its approved operating state.

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