80SD100XD.C0XX-21

ACOPOSmicro dual stepper motor module

Dual stepper-motor power plus X2X, digital and analog I/O data

PRODUCT SNAPSHOT

BRAND	FAMILY
B&R	B&R ACOPOSmicro motion
PART	ORIGIN / HS
80SD100XD.C0XX-21	Austria / 8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE
+86 180 3023 5313

EMAIL
sales13@apterpower.com

WEBSITE
www.apterpower.com

PRODUCT OVERVIEW

Dual stepper-motor power plus X2X, digital and analog I/O data

1. Controls two stepper-motor axes
2. Uses a 24-to-64 V DC bus
3. Provides ten amperes continuous module current
4. Integrates X2X Link and local I/O

SYSTEM COMPONENTS

- X2X Link controller
- two compatible stepper motors
- 24-to-64 V DC power supply
- Automation Studio motion project

TECHNICAL NOTE

Discharge the DC bus, record motor phases and feedback, preserve X2X identity and restore only the documented current, ramp and limit settings.

TECHNICAL DATA

PARAMETER	VALUE
Axes	2
Motor type	Two-phase bipolar stepper
DC bus	24 to 64 V DC +/-25%
Continuous module current	10 A

PARAMETER	VALUE
Communication	X2X Link
Analog inputs	2; +/-10 V; 13 bit
Local I/O	Digital inputs and outputs

ENGINEERING NOTE

Discharge the DC bus, record motor phases and feedback, preserve X2X identity and restore only the documented current, ramp and limit settings.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
MC-TDIA72	Related industrial automation product	View MC-TDIA72 page
TK-HAO081	Related industrial automation product	View TK-HAO081 page
05704-A-0123	Related industrial automation product	View 05704-A-0123 page
10209-2-1	Related industrial automation product	View 10209-2-1 page
51307038-100	Related industrial automation product	View 51307038-100 page
10014-H-I	Related industrial automation product	View 10014-H-I page
6GK1561-2AA00	Related industrial automation product	View 6GK1561-2AA00 page
10014-F-F	Related industrial automation product	View 10014-F-F page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Dual-axis feeder control

Controls two stepper-motor axes

Compact indexing machine

Uses a 24-to-64 V DC bus

X2X distributed motion

Provides ten amperes continuous module current

ACOPOSmicro module renewal

Integrates X2X Link and local I/O

PRODUCT PRECAUTIONS

1. Verify the full 80SD100XD.C0XX-21 marking and its assigned B&R ACOPOSmicro motion position before work.
2. Place the connected machine or process in the approved maintenance state.
3. Isolate the applicable supply and dual stepper-motor power plus x2x, digital and analog i/o 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 X2X Link controller and two compatible stepper motors against the approved project.
7. Restore power in a controlled sequence and review device, network and host diagnostics.
8. Prove the intended dual-axis feeder control function and retain the final test result.

ENGINEER FAQ

Q1 Does 80SD100XD.C0XX-21 match X2X Link controller in a Dual-axis feeder control installation?

Verify the complete 80SD100XD.C0XX-21 marking, the documented B&R ACOPOSmicro motion position and the installed X2X Link controller before fitting the assembly.

Q2 How should 80SD100XD.C0XX-21 be wired when it must controls two stepper-motor axes?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 80SD100XD.C0XX-21; then continuity-test the affected path.

Q3 Which B&R ACOPOSmicro motion records should be captured before removing 80SD100XD.C0XX-21?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 80SD100XD.C0XX-21 before disconnection.

Q4 What controlled test confirms that 80SD100XD.C0XX-21 can uses a 24-to-64 v dc bus?

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

Q5 Which two compatible stepper motors condition should be checked when 80SD100XD.C0XX-21 reports an abnormal state?

Check the two compatible stepper motors supply, seating and connection first, then compare channel diagnostics with the recorded 80SD100XD.C0XX-21 baseline.

Q6 Can 80SD100XD.C0XX-21 be moved directly into Compact indexing machine without validating Automation Studio motion project?

No. Confirm the Automation Studio motion project, revision, connection scheme and B&R ACOPOSmicro motion configuration before transferring 80SD100XD.C0XX-21 to that duty.

Q7 What maintenance evidence is required after 80SD100XD.C0XX-21 is used for X2X distributed motion?

Retain the nameplate record, corrective action, final diagnostics and a controlled x2x distributed motion functional-test result for 80SD100XD.C0XX-21.

Q8 How should 80SD100XD.C0XX-21 be returned to service in ACOPOSmicro module renewal?

Restore power under control, verify provides ten amperes continuous module current, exercise the intended signal path and release 80SD100XD.C0XX-21 only after the B&R ACOPOSmicro motion remains in its approved operating state.

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