

X20SL8000

SafeLOGIC safety controller

CONTROLLED ENGINEERING COPY

Record safety signatures and POWERLINK node identities, restore only the approved SafeDESIGNER project and repeat the complete validation procedure.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	X20SL8000
Manufacturer part	X20SL8000
Hardware type	SIL 3; Cat. 4 / PL e
System family	B&R X20 safety control



APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



01 PRE-INSTALLATION PLAN

- 1

Verify the full X20SL8000 marking and its assigned B&R X20 safety control position before work.
- 2

Place the connected machine or process in the approved maintenance state.
- 3

Isolate the applicable supply and powerlink safety data and safelogic program execution 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.

MATCHED HARDWARE

- X20 SafeLOGIC bus base
- POWERLINK safety nodes
- 24 V DC supply
- SafeDESIGNER project and validation record

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	X20SL8000 / X20SL8000 recorded
Physical interface	X20 SafeLOGIC bus base
Companion check	POWERLINK safety nodes
Functional proof	Executes SIL 3 safety applications
Application test	Machine safety controller

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Safety level	SIL 3; Cat. 4 / PL e
Maximum safety nodes	20
POWERLINK	100 Mbit/s
Shortest task class	1 ms
Supply	24 V DC -15% / +20%
Power consumption	5.1 W
Protection	IP20
Weight	290 g

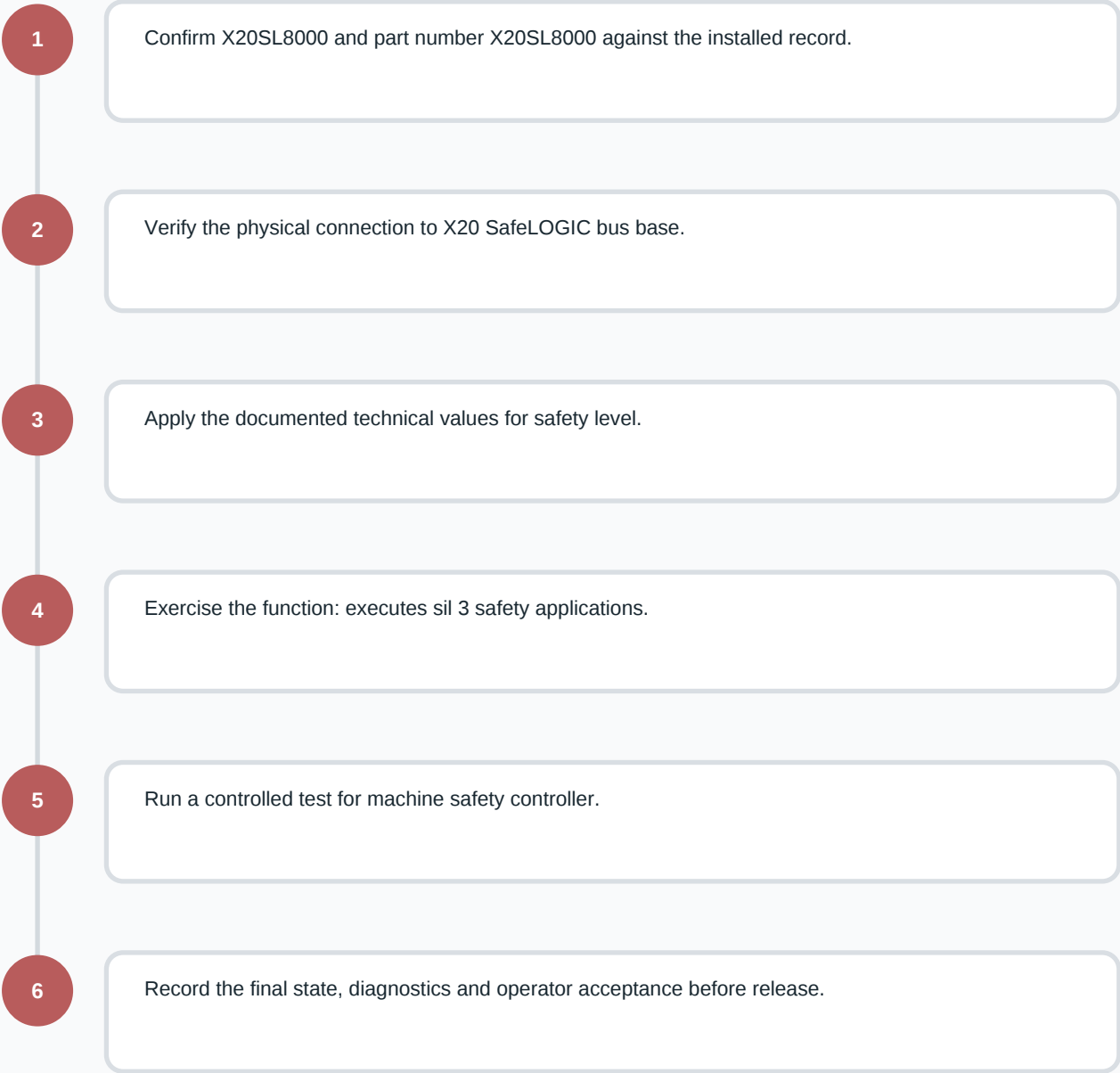
SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	X20 SafeLOGIC bus base
Companion hardware	POWERLINK safety nodes
Field connection	24 V DC supply
Primary system function	Executes SIL 3 safety applications
Controlled acceptance duty	Machine safety controller

FIELD NOTE

Record safety signatures and POWERLINK node identities, restore only the approved SafeDESIGNER project and repeat the complete validation procedure.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	X20SL8000 / X20SL8000 recorded
Physical interface	X20 SafeLOGIC bus base
Companion check	POWERLINK safety nodes
Functional proof	Executes SIL 3 safety applications
Application test	Machine safety controller

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the installed X20 SafeLOGIC bus base and POWERLINK safety nodes against the approved project.
- ☐
- Restore power in a controlled sequence and review device, network and host diagnostics.
- ☐
- Prove the intended machine safety controller function and retain the final test result.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	X20SL8000
INSTALLED POSITION	Documented B&R X20 safety control position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC670MDL330	Related industrial automation product	View IC670MDL330 page
IC670MDL331	Related industrial automation product	View IC670MDL331 page
IC670MDL241	Related industrial automation product	View IC670MDL241 page
IC670MDL240	Related industrial automation product	View IC670MDL240 page
22B-D4P0N104	Related industrial automation product	View 22B-D4P0N104 page
IC670MDL233	Related industrial automation product	View IC670MDL233 page
IC670ALG621	Related industrial automation product	View IC670ALG621 page
IC670ALG630	Related industrial automation product	View IC670ALG630 page

SOURCE IDENTIFIERS

B&R official product data sheet

B&R product data

APTER POWER SALES TEAM

WHATSAPP / PHONE	+86 180 3023 5313
EMAIL	sales13@apterpower.com
WEBSITE	www.apterpower.com

