APTER POWER

PRODUCT TECHNICAL REFERENCE

INDUSTRIAL AUTOMATION PRODUCT

X20SL8000

SafeLOGIC safety controller

POWERLINK safety data and SafeLOGIC program execution

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	B&R X20 safety control
Part number	X20SL8000
Country	Austria
HS code	8537101190

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2 Technical Specifications

Technical values below are limited to the named B&R product record.

PARAMETER	TECHNICAL 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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED 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

3 System Role and Architecture

POWERLINK safety data and SafeLOGIC program execution

FUNCTION 1

Executes SIL 3 safety applications

FUNCTION 2

Coordinates up to twenty safety nodes

FUNCTION 3

Communicates through 100 Mbit/s POWERLINK

FUNCTION 4

Provides a one-millisecond shortest task class

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
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

4 Applications and Engineering Context

Machine safety controller

Executes SIL 3 safety applications

Networked emergency-stop logic

Coordinates up to twenty safety nodes

Safety motion coordination

Communicates through 100 Mbit/s POWERLINK

SafeLOGIC controller renewal

Provides a one-millisecond shortest task class

TECHNICAL NOTE

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

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	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

5 Engineering Precautions

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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330909-00-25-10-02-00	Related industrial automation product	View 330909-00-25-10-02-00 page
C98043-A7106-L1	Related industrial automation product	View C98043-A7106-L1 page
330908-21-35-10-02-00	Related industrial automation product	View 330908-21-35-10-02-00 page
330905-0-25-05-02-IN	Related industrial automation product	View 330905-0-25-05-02-IN page
330903-00-07-10-01-CN	Related industrial automation product	View 330903-00-07-10-01-CN page
MVI56-MCM	Related industrial automation product	View MVI56-MCM page
330903-00-07-10-01-00	Related industrial automation product	View 330903-00-07-10-01-00 page
PM590-ETH-1SAP150000R0271	Related industrial automation product	View PM590-ETH-1SAP150000R0271 page

MANUFACTURER SOURCE RECORD

B&R official product data sheet

B&R product data

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