

INDUSTRIAL AUTOMATION PRODUCT

X20SL8010

SafeLOGIC Controller

B&R X20SL8010 is a safelogic controller for the documented X20 System installation.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	X20 System
Part number	X20SL8010
Origin / HS	Austria / 8537101190
Shipping origin	Xiamen,Fujian,China

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Confirm B&R X20SL8010, X20 openSAFETY system, POWERLINK, SafeKEY and safety application, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

System Role and Architecture

B&R X20SL8010 is a safelogic controller for the documented X20 System installation.

FUNCTION 1
Provides central safety application execution

FUNCTION 2
Uses exact B&R article identity X20SL8010

FUNCTION 3
Matches system module: SafeLOGIC CPU

FUNCTION 4
Matches safety level: SIL 3 / Cat. 4 / PL e

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	X20 System
02	X20 openSAFETY system
03	POWERLINK, SafeKEY and safety application
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	X20 System
Interface role	central safety application execution
Field / power context	X20 openSAFETY system
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete B&R X20SL8010 marking and installed X20 System position before work.
- 2

Place the machine or process in the approved maintenance state and isolate every applicable energy source.
- 3

Record POWERLINK, SafeKEY and safety application, terminal assignments, shielding and protective-ground connections before removal.
- 4

Use ESD controls and protect keyed connectors, terminals and exposed electronics from contamination.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
System module	SafeLOGIC CPU	Shortest task cycle	1 ms
Safety level	SIL 3 / Cat. 4 / PL e	Power supply	24 VDC -15%/+20%
Supported safety nodes	Maximum 20	Power consumption	5.1 W
POWERLINK ports	2 shielded RJ45	SafeKEY	Ordered separately
Transfer rate	100 Mbit/s		

ENGINEERING BOUNDARY

Confirm B&R X20SL8010, X20 openSAFETY system, POWERLINK, SafeKEY and safety application, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete B&R X20SL8010 marking and installed X20 System position before work.
- 2

Place the machine or process in the approved maintenance state and isolate every applicable energy source.
- 3

Record POWERLINK, SafeKEY and safety application, terminal assignments, shielding and protective-ground connections before
- 4

Use ESD controls and protect keyed connectors, terminals and exposed electronics from contamination.

Applications and Engineering Context

X20 System system maintenance

Restores central safety application execution in the documented installation.

Controlled hardware replacement

Preserves the exact X20SL8010 identity and approved configuration.

Interface verification

Confirms POWERLINK, SafeKEY and safety application before energization.

Functional recommissioning

Reviews diagnostics and records the controlled system response.

TECHNICAL NOTE

Confirm B&R X20SL8010, X20 openSAFETY system, POWERLINK, SafeKEY and safety application, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	X20SL8010 recorded
Host / carrier	X20 System
Physical interface	POWERLINK, SafeKEY and safety application matched
Configuration	Exact installed configuration and assignments restored
Functional proof	Controlled central safety application execution response recorded

IMPORTANT NOTICE

Confirm B&R X20SL8010, X20 openSAFETY system, POWERLINK, SafeKEY and safety application, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER	
01	Bently Nevada 330930-045-04-00
02	Bently Nevada 330173-03-08-05-02-05
03	Bently Nevada 330101-16-40-05-01-05
04	Bently Nevada 330104-00-03-50-02-00
05	Bently Nevada 330876-02-90-00-00
06	Bently Nevada 330880-28-15-044-01-02
07	Bently Nevada 330103-02-08-50-11-00
08	Bently Nevada 330102-00-31-05-02-00

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

B&R X20SL8010 product data | Data sheet X20SL8010

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