

B&R - X20 System

X20SL8000

SafeLOGIC Safety Controller

Technical specifications

Safety network	POWERLINK Safety
Maximum safety nodes	20
Shortest task class	1 ms
POWERLINK interfaces	2 shielded RJ45 ports with integrated hub
Transfer rate	100 Mbit/s
Maximum segment length	100 m
Maximum POWERLINK cycle time	20 ms
Supply voltage	24 VDC -15% / +20%
Power consumption	5.1 W
Cooling	Fanless
Functional safety	IEC 61508 SIL 3; IEC 62061 SIL 3; ISO 13849-1 Cat. 4 / PL e
Mission time / proof-test interval	20 years / 20 years
Automation Studio	3.0.71 or later
Automation Runtime	2.95 or later
SafeDESIGNER	2.58 to 3.0
Safety Release	1.1 to 1.6
Operating temperature	0 to 55 °C horizontal; 0 to 45 °C vertical
Storage / transport temperature	-25 to 70 °C
Degree of protection	IP20
Dimensions	8.75 × 9.9 × 7.5 cm (W × H × D)
Weight	0.29 kg

Documented role

B&R X20SL8000 is a POWERLINK-based SafeLOGIC controller for central machine-safety tasks with up to 20 safety nodes for the X20 System.

Documented applications

- Central safety control for compact machines with up to twenty SafeIO nodes
- POWERLINK Safety coordination of distributed emergency-stop and guard functions
- Safety configuration and parameter management for validated modular machine sections

Selection and installation checks

X20SL8000 is a SafeLOGIC controller for compact safety networks. Confirm the SafeKEY, supported software release, maximum safety-node count, POWERLINK timing, 24 VDC supply, validated project and full machine acceptance test before replacement.