

B&R - X20 System

X20SO4110

4-channel 0.5 A Safe Digital Output Module

Technical specifications

Safe outputs	4 type A digital outputs
Nominal output current	0.5 A per channel
Total nominal current	2 A
Switching arrangement	Positive and negative switching
Current monitoring	Integrated
Open-circuit detection	Integrated
Current-monitoring threshold	<10 mA off; 10 to 50 mA undefined; >50 mA on
Maximum test pulse	500 µs
Minimum test interval	49.5 ms
Maximum capacitive load	100 nF
Functional safety	IEC 61508 SIL 3; ISO 13849-1 Cat. 4 / PL e
Bus / internal I/O power	0.25 W / 1.3 W
Electrical isolation	Channels isolated from bus; channels not isolated from one another
Required terminal block	X20TB52, ordered separately
Required bus module	X20BM33 or X20BM36, ordered separately
Module pitch	25 mm +0.2 mm

Documented role

B&R X20SO4110 is a SafeIO module with four type A safe digital outputs rated 0.5 A per channel for the X20 System.

Documented applications

- Safety relay and contactor-coil control
- Safety shutoff valves with compatible potential-free coils
- Machine safety circuits requiring monitored 0.5 A outputs

Selection and installation checks

X20SO4110 is a type A safety output module for suitable potential-free actuators. Verify positive and negative switching, 0.5 A channel rating, total load, inrush, leakage and test-pulse behavior, safety-keyed accessories, certified project, and machine validation before energizing actuators.