

B&R - X20 System

X20DO6321

Digital Output Module

Technical specifications

Digital outputs	6
Output variant	FET current-sinking
Nominal voltage	24 VDC
Switching voltage	24 VDC -15%/+20%
Nominal output current	0.5 A per channel
Total nominal current	3 A
Output circuit	Sink
Connection type	1- or 2-wire connections
Switching delay	<300 µs on; <300 µs off
Resistive-load switching frequency	Maximum 500 Hz
Output protection	Thermal shutdown and internal freewheeling diode
Diagnostic status	Output monitoring with 10 ms delay
Off-state leakage current	75 µA
Peak short-circuit current	<7 A

Documented role

B&R X20DO6321 is a six-channel 24 VDC sink digital output module for 1- or 2-wire connections with integrated protection for the X20 System.

Documented applications

- Switching six 24 VDC loads that require current-sinking outputs
- Compact 1-wire output stations using the 6-pin X20 terminal block
- Distributed 2-wire actuator stations connected to standard fieldbus control systems

Selection and installation checks

X20DO6321 supports different wiring layouts through X20TB06 or X20TB12; verify sink polarity, group current, load inrush, terminal choice, X20BM11 or X20BM15, and saved channel mapping before replacement.