

B&R - X20 System**X20DO8331**

Digital Output Module

Technical specifications

Digital outputs	8
Output variant	FET current-sinking
Nominal voltage	24 VDC
Switching voltage	24 VDC -15%/+20%
Nominal output current	2 A per channel
Total nominal current	8 A
Output circuit	Sink
Connection type	1-wire connections
Output supply	External, fed directly to the module
Required line fuse	Maximum 10 A slow-blow
Switching delay	<300 µs on; <500 µs off
Output protection	Thermal shutdown, freewheeling diode, and reverse-polarity protection
Diagnostic status	Supply monitoring and output monitoring with 10 ms delay
Parallel operation	Outputs may be connected in parallel to increase output current

Documented role

B&R X20DO8331 is a eight-channel 24 VDC sink digital output module with 2 A outputs, direct field-power feed, and integrated protection for the X20 System.

Documented applications

- Switching high-current 24 VDC actuators in X20 machine-control stations
- Distributed output groups that receive field power directly at the electronic module
- Documented current-sharing applications using parallel output channels

Selection and installation checks

X20DO8331 requires a direct external output supply and a maximum 10 A slow-blow line fuse; verify sink polarity, total group current, any parallel-output design, X20TB12, X20BM11 or X20BM15, and thermal derating.