

B&R X20DO4529

Relay Output Module

B&R; X20DO4529 provides four individually isolated relay changeover outputs for 30 VDC or 115 VAC control circuits. It connects discrete field loads to an X20 station while keeping each output channel isolated from the other channels and the bus.

BRAND	B&R;	ORIGIN	Austria
MODEL	B&R; X20DO4529	PRODUCT	Relay Output Module
FAMILY	X20 System	SOURCE	B&R; version 3.20, 2024-10-01

MANUFACTURER SOURCE RECORD

Data sheet X20DO4529
B&R; version 3.20, 2024-10-01

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B&R X20DO4529

Product Overview

SYSTEM FUNCTION

B&R; X20DO4529 provides four individually isolated relay changeover outputs for 30 VDC or 115 VAC control circuits. It connects discrete field loads to an X20 station while keeping each output channel isolated from the other channels and the bus.

FUNCTION 1

Switches four independent field circuits with changeover contacts

FUNCTION 2

Separates each relay channel from the remaining outputs and the X20 bus

FUNCTION 3

Reports module and output status through LEDs and software diagnostics

FUNCTION 4

Supports DC and mains-frequency AC control duties with external load suppression

TECHNICAL NOTE

Install B&R; X20DO4529 with an X20TB12 terminal block and X20BM11 or X20BM15 bus module. Select external suppression for AC or DC loads and prove every relay channel against the configured output state before release.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Output channels	4 relay changeover outputs
Nominal voltage	30 VDC / 115 VAC
Nominal output current	1 A at 30 VDC / 0.5 A at 115 VAC
Maximum switching voltage	110 VDC / 125 VAC
Switching delay	<=4 ms on; <=4 ms off
Electrical isolation	Channel-to-channel, channel-to-bus and channel-to-I/O supply
Bus power	0.8 W
B&R; ID code	0x20D9
Protection rating	IP20
Operating temperature	-25 to 60 C horizontal; -25 to 50 C vertical
Required terminal block	X20TB12
Required bus module	X20BM11 or X20BM15

ENGINEERING BOUNDARY

Install B&R; X20DO4529 with an X20TB12 terminal block and X20BM11 or X20BM15 bus module. Select external suppression for AC or DC loads and prove every relay channel against the configured output state before release.

Acceptance Path

1 IDENTITY

B&R; X20DO4529 and all four output assignments are recorded.

2 HARDWARE

X20TB12 and the correct bus module are installed and keyed.

3 ELECTRICAL

Field voltages, load currents and suppression agree with the data sheet.

4 FUNCTIONAL PROOF

Each command produces the intended changeover contact state and safe de-energization.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Isolated interposing relay duties	B&R; X20DO4529 separates four commanded loads where each circuit needs its own changeover contact.
Valve and contactor command	The module switches documented DC or AC control coils through externally protected relay contacts.
Mixed-potential panel outputs	Single-channel isolation permits independent field circuits within the approved voltage limits.
X20 machine-control stations	Status LEDs and software diagnostics support output commissioning and maintenance in an X20 node.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
How are the four B&R; X20DO4529 relay channels electrically separated?	B&R; specifies each channel as isolated from the other channels, the bus and the I/O power supply.
Which loads fit the B&R; X20DO4529 nominal contact ratings?	The documented nominal ratings are 1 A at 30 VDC and 0.5 A at 115 VAC, subject to the stated switching-capacity limits.
What external suppression is required when B&R; X20DO4529 switches an inductive load?	For AC loads use an RC combination or VDR; for DC loads use an inverse diode, RC combination or VDR.
Why must a B&R; X20DO4529 replacement retain the terminal and bus modules?	The official data sheet requires an X20TB12 terminal block and an X20BM11 or X20BM15 bus module for the installed slice.

FAQ, Related Products and Source

QUESTION	ANSWER
How quickly should B&R; X20DO4529 contacts change state?	Both the 0-to-1 and 1-to-0 switching delays are specified at no more than 4 ms.
Which contact-life records matter for B&R; X20DO4529 maintenance?	B&R; lists at least 100,000 electrical operations and 50 million mechanical operations at 3 Hz; the actual load history remains important.
What diagnostics can confirm a commanded B&R; X20DO4529 output?	The module provides per-output LED indication plus operating-state and module-status reporting.
How should B&R; X20DO4529 be accepted after wiring changes?	Energize each documented field circuit under controlled conditions, compare the command with contact state and prove the intended safe state on de-energization.

Related Products on Apter Power

MODEL	APTER POWER PAGE
GE 8021-CE-LH	View GE 8021-CE-LH page
GE 8810-HI-TX-01	View GE 8810-HI-TX-01 page
GE 8811-IO-DC	View GE 8811-IO-DC page
GE 8851-LC-MT	View GE 8851-LC-MT page
GE DS200TCEAG1BSF	View GE DS200TCEAG1BSF page
GE IC600BF843	View GE IC600BF843 page
GE IC693ALG391	View GE IC693ALG391 page
GE IC693ALG391G	View GE IC693ALG391G page

MANUFACTURER SOURCE RECORD

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