ABB XO08R1 XOO8R1-B04 1SBP260101R1001

Digital Relay Output Extension Module

ABB XO08R1 XOO8R1-B04 1SBP260101R1001 is a relay-output extension for AC31 Series 40/50 basic units or an extensible ICMK14 remote unit, with independent C1 and C2 commons.

Sourcing Support | 12-Month Warranty

Product summary

Manufacturer part number	XO08R1 XOO8R1-B04 1SBP260101R1001
Shipping	Swift global dispatch
Condition	New, original product
Shipping size (est.)	6.5cm x 8.5cm x 9.2cm
Country of Origin	Sweden
Manufacturer	ABB
Product Category	PLC Systems
Spare Part Number	XO08R1 XOO8R1-B04 1SBP260101R1001
Weight	0.22 kg

Buyer information / Overview

XO08R1 is a local extension without its own CS31 bus connection. XO08R2 has a different contact arrangement, while XO08Y1 uses transistor outputs; the similar names do not describe equivalent field interfaces.

Independent output commons
Preserve the separate C1 and C2 field-circuit relationships.

Host-based expansion
Output data passes through the local extension connection to the basic or remote unit.

Load-dependent contact duty
Inductive behavior and switching frequency influence relay selection beyond the nominal current.

The module connects directly to the local expansion interface rather than acting as an independent CS31 station. The Series 40/50 architecture permits a chain of local extensions, while an ICMK14 remote unit provides the CS31 relationship when the extension is used remotely. Account for the complete chain and its assigned I/O addresses.

The logic-side extension supply is provided by the connected basic or remote unit. Field contact circuits must still be reviewed independently, particularly the separate C1 and C2 terminals. Do not infer that all commons are internally linked or that the host logic supply establishes a field-load supply.

Relay capability depends on load type, inrush and switching frequency. The decreasing DC inductive limits are specified for different L/R conditions, and external overload and surge protection are required. Preserve those conditions when comparing a spare with the installed actuator circuit.

Controller platform reference: AC31 Series 40/50 local extension. Retain the documented ABB configuration.

Technical Specifications

Relay outputs	8
Extension logic supply	5 V DC from basic/remote unit
Output isolation test	1500 V AC, 1 min
Resistive DC load / inrush	2 A / 5 A
DC load at L/R 20 ms	2 A
DC load at L/R 30 ms	1 A
DC load at L/R 40 ms	0.6 A
DC load at L/R 60 ms	0.35 A
AC-1 contact load	2 A
AC-15 contact load	0.5 A
Resistive switching frequency	<1 Hz
Inductive/lamp switching frequency	<0.2 Hz
Minimum contact load	10 mA at 12 V DC
AC-1 switching life	1,000,000 cycles
AC-15 switching life	100,000 cycles

Technical source: ABB Advant Controller 31 Hardware Series 40 and 50, 2CDC120060M0202. Electrical data apply to XO 08 R1, order 1SBP260101R1001. The supplied XOO8R1-B04 marking is retained without assigning an undocumented meaning to B04. Load limits depend on duty and the stated inductive time constant.
Apter Power product summary. Original technical pages and a field guide are available in Downloads.

Applications / Compatibility

Use XO08R1 on the local extension interface of the documented AC31 basic or extensible remote unit; it has no standalone CS31 station connection.

Choose the relay execution and its commons/load protection from the wiring duty. XO08R2 and XO08Y1 change the field-output arrangement.

Local basic-unit outputs

Extend an eligible Series 40/50 basic unit through the local chain. Retain the module order and I/O assignment used by the application.

ICMK14 remote expansion

Place the relay extension behind the extensible remote unit. The remote unit, rather than XO08R1, supplies the CS31 station relationship.

Separated field commons

Keep the C1 and C2 circuits independent as shown in the installation drawing. Review any commoning links before transferring field supplies.

Inductive actuator duty

Compare the actuator L/R and required switching rate with the relay limits. Retain external suppression and overload protection for the actual circuit.

Product Precautions

Prepare ABB XO08R1 XOO8R1-B04 1SBP260101R1001 using the following checks for its documented interface and system duty.

Power down the extension chain

The manufacturer prohibits connecting or disconnecting local extensions under power.

Record chain position

Capture the host, neighboring extensions and application address assignment.

Preserve C1/C2 separation

Do not add a commoning link from an assumption about another output module.

Review inductive demand

Use the current limit for the actual L/R duty and switching frequency.

Retain external protection

Inspect the overload and surge-protection components assigned to relay circuits.

Test with the field load

Prove the required actuator state at the actual circuit rather than only checking an output command.

Lifecycle Status

A factory lifecycle phase for XO08R1 XOO8R1-B04 1SBP260101R1001 is unconfirmed. It is the relay-output local extension for the documented AC31 basic or extensible remote unit.

Retain the R1 field-contact and C1/C2 common arrangement. R2 contact configuration and Y1 transistor outputs require different circuit decisions; neither follows solely from the shared XO08 prefix.

Supply is the relay extension; the basic/remote unit, local-chain neighbors and external field protection are separate installation items.

Available Unit Details

Offered reference	ABB XO08R1 XOO8R1-B04 1SBP260101R1001
Identity check	Request the full R1/B04/1SBP marking and photographs of the host-extension connection, relay terminal labels and C1/C2 areas.
Physical review	The offer is the relay extension, without a basic unit or ICMK14 unless listed. Load type, external suppression, common separation and operation through the local I/O chain must be assessed at the receiving installation.
Included items	one relay output extension; host, remote coupler and external protection separately listed

Request available-unit photos and details: sales13@apterpower.com

Technical notes

Bus boundary	XO08R1 uses the local extension interface and is not an independent CS31 station.
Common arrangement	C1 and C2 are independent; preserve the actual field-circuit separation.
Minimum-load decision	A low-current electronic input must be checked against the relay’s minimum contact load; the maximum current rating does not establish reliable low-level switching.

Alternative Names

ABB XO08R1 XOO8R1-B04 1SBP260101R1001; XO08R1 XOO8R1 B04 1SBP260101R1001

Frequently Asked Questions (FAQ)

1. Can XO08R1 XOO8R1-B04 1SBP260101R1001 connect directly as an independent CS31 remote station?

No. It is a local extension without a CS31 system-bus connection. Use the documented basic unit or extensible ICMK14 remote unit and preserve the local-chain assignment.

2. Can C1 and C2 on XO08R1 XOO8R1-B04 1SBP260101R1001 be assumed to be internally common?

No. The manufacturer identifies them as independent. Compare their field supplies and any intentional links with the installed drawing before transferring wires.

3. Why is an inductive load acceptable at one current but not another on XO08R1 XOO8R1-B04 1SBP260101R1001?

The limit changes with the load L/R time constant. Compare the actuator duty with the applicable manufacturer row and retain its external protection rather than applying only the resistive current figure.

4. Is XO08R2 an automatic relay replacement for XO08R1 XOO8R1-B04 1SBP260101R1001?

No. R2 has a different normally-open/changeover contact arrangement. Compare channel contacts, commons and required load duty before considering the change.

5. Can the host remain powered while XO08R1 XOO8R1-B04 1SBP260101R1001 is exchanged?

No. The manufacturer explicitly prohibits connecting or disconnecting the local extensions under power. Establish the approved shutdown state before disturbing the chain.

6. Does the logic supply of XO08R1 XOO8R1-B04 1SBP260101R1001 determine the voltage switched by its contacts?

No. The host supplies extension logic, while the relay contacts belong to separately designed field circuits. Identify the field voltage and contact duty independently.

7. Why can XO08R1 XOO8R1-B04 1SBP260101R1001 switch a test lamp yet behave unreliably with a low-current electronic input?

Compare the receiving input with the specified minimum contact load, as well as the maximum load. A test lamp and a very small electronic burden represent different contact conditions; validate the intended circuit rather than the lamp result alone.

8. How should nuisance contact wear on XO08R1 XOO8R1-B04 1SBP260101R1001 be investigated?

Check load category, inrush, inductive L/R and switching rate together with external suppression. A current below the resistive rating can still exceed the documented inductive duty or permitted operating frequency.

Downloads

The technical reference covers AC31 Series 40/50 local extension. The independent field guide develops local extension addressing and relay-common review.

XO08R1 XOO8R1-B04 1SBP260101R1001 Original Technical Reference Excerpt	Selected original manufacturer pages for the applicable interfaces and technical data. PDF · 6 pages · 185.3 KB.
XO08R1 XOO8R1-B04 1SBP260101R1001 Installation & Commissioning Guide	Local Extension Addressing and Relay-Common Review. Build the replacement decision around the host chain, independent commons and actuator duty rather than treating the module as a standalone bus device. PDF · 2 pages · 92 KB.

Selected original technical pages and a separate installation guide support this product.

What happens after you enquire

Review your reference	Send the full marking, quantity and label photos. We review the item and any version details that need clarification.
Confirm the offer	Check the quoted reference, condition, included items and expected dispatch date before approving your order.
Arrange dispatch	Confirm delivery details and receive the tracking number when it becomes available.

Ordering checks

Include XO08R1 XOO8R1-B04 1SBP260101R1001 and every revision or approval marking visible on the item. Keep the exact reference on your enquiry and quotation.

Request available label and interface photos. Have your maintenance team compare the offered XO08R1 XOO8R1-B04 1SBP260101R1001 reference with the installed equipment and applicable ABB documentation.

Service and support

Dispatch Planning	Confirm stock and lead time with our team.
Dedicated Manager	Personalized one-to-one VIP service
ISO 9001:2015 Certified	Trusted quality management
Warranty Policy	Review the applicable warranty coverage and claim process.
Return Notice	Check the return process and obtain approval before sending an item back.
Shipping Method	Review shipping arrangements, transit estimates and delivery responsibilities.
Parts Availability	Browse stock listings and confirm current availability with our team.
How to order	See how to submit an enquiry, review a quotation and confirm an order.

Discuss your requirement

Send the full marking, label photos, quantity and required date. Our team will review the available sourcing options with you.

WhatsApp / Phone: +86 18030235313 | sales13@apterpower.com

Related product references

Separate supply references; listing does not establish interchangeability.

ABB YPK113A	UART Communication Board; separate supply reference
ABB 07KP64 GJR5240600R0101	RCOM Communication Processor; separate supply reference

Discuss XO08R1 XOO8R1-B04 1SBP260101R1001 and the installed application with Apter Power.
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