# ABB XO08R1 XOO8R1-B04 1SBP260101R1001

Digital Relay Output Extension Module

## 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.

## Before You Order

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| **Host and order** | Collect the basic/remote unit identity and the local extension sequence. |
| **Contact requirements** | Confirm C1/C2 assignments, field voltages, actuator L/R and required switching rate. |
| **Marking and supply** | Compare the 1SBP label and the supplied B04 marking with the receiving installation. |

## The installed relationship

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|---|---|
| **Host connection** | Basic unit or ICMK14 -> local chain -> output address assignment |
| **Field connection** | Independent C1/C2 -> assigned relay channels -> actual actuator circuits |
| **Protection boundary** | Field supply and overload/surge protection remain outside the logic supply |

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.

## Local Extension Addressing — work decisions

**1 Identify the local host**

Record the basic unit or ICMK14, extension order and existing output addresses.

**2 Separate switched commons**

Compare C1 and C2 field circuits before transferring any common links.

**3 Classify the receiving loads**

Review resistive versus inductive duty, inrush and minimum current for each affected contact.

**4 Reconnect with the chain isolated**

Restore the recorded local-extension and field connections; do not hot-swap the extension.

**5 Prove address-to-contact action**

Command the intended outputs and verify their actual receiving loads rather than only controller status.

**6 Check the real switching duty**

Retain the approved suppression and confirm operation at the installed load category and switching rate.

## Interpret the observed fault

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|---|---|
| **Output command present but load inactive** | Check the assigned common supply, contact circuit and field protection. |
| **Wrong actuator responds** | Reconcile local-chain order and application address allocation. |
| **Contact deterioration on a cycling load** | Review switching rate and inductive duty before fitting another module. |

## Evidence required to release this assembly

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|---|---|
| **Address proof** | Each affected address operates its recorded relay channel. |
| **Common proof** | C1/C2 remain connected only as required by the field drawing. |
| **Load proof** | The actuator responds correctly with its required suppression/protection. |

## Relay-Extension Selection Boundaries

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|---|---|
| **R1 / R2 distinction** | Contact arrangement changes the wiring decision even within the relay extension family. |
| **R1 / Y1 distinction** | Mechanical contacts and transistor outputs are different field interfaces. |
| **Logic / field distinction** | The host logic supply is separate from the switched contact circuit. |

## Decisions from the observed installation

**A local extension is mistaken for a remote node**

Identify the ICMK14 or basic unit that actually owns the bus relationship.

**A replacement repeats a contact failure**

Review the load time constant and cycling frequency before attributing the symptom only to the module.

## The evidence to retain for XO08R1 XOO8R1-B04 1SBP260101R1001

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|---|---|
| **Chain record** | Host, local sequence, addresses and terminal identifiers. |
| **Field record** | Common separation, supply, load duty, protection and observed output result. |

## Technical basis

ABB Advant Controller 31 Hardware Series 40 and 50, 2CDC120060M0202

## Related product references

Separate supply references; listing does not establish interchangeability.

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|---|---|
| ABB 07EA61R1 GJV3074351R1 | Isolated Analog Current Input Module; separate supply reference |
| ABB YPH108B/SPC | Extended Speed Measuring Board; separate supply reference |

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