01 / Job scope and readiness

PHOENIX CONTACT

REL-IR-BL/L-24DC/4×21 1032527

Industrial Relay

Work boundary

Plan the REL-IR-BL/L-24DC/4×21 1032527 installation against the actual ESSENTIAL edition industrial relays arrangement. Qualified personnel must use the original manufacturer instructions and approved site isolation procedures. This guide supports planning and does not replace those procedures.

Identify
Complete unit and host

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Isolate
Affected field circuits

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Verify
Configuration and operation

Configuration to preserve

1032527 identifies the REL-IR-BL/L- 24DC/4X21 single relay. Coil, contact and insulation limits apply to the relay; the matching socket and installation enclosure are separate selection items.

02 / Connection and configuration review

Match the full relay identity

Retain REL-IR-BL/L-24DC/4×21 and article 1032527 together. Compare the coil marking and contact arrangement with the installed relay and socket.

Check coil conditions

Use the polarized 24 VDC coil with the correct connection polarity. Apply the input range only with its stated 20 °C condition and review temperature-dependent operation.

Rate the actual contact load

Check switching voltage, continuous current, inrush duration and resistive or inductive load separately. The 12 A inrush limit applies to normally open contacts for 20 ms.

Check	Required relationship
Contact arrangement	4 changeover contacts
Contact material	AgNi
Nominal coil voltage	24 VDC

What coil voltage is required by REL-IR-BL/L-24DC/4×21 1032527?

Nominal coil voltage is 24 VDC. The specified input range is 19.2–46.8 VDC at 20 °C; operation is monostable and polarized.

What current can REL-IR-BL/L-24DC/4×21 1032527 carry?

Limiting continuous contact current is 6 A. The normally open contacts have a maximum inrush rating of 12 A for 20 ms. These limits do not replace load-specific interrupting ratings.

03 / Installation conditions and release

Respect insulation limits

Do not use this relay to separate SELV/PELV circuits from other circuits. Do not mix SELV/PELV and hazardous voltages on adjacent channels or switch different outer conductors.

Provide the correct enclosure

Use the matching plug-in socket and an installation location rated at least IP54. Keep operating temperature within -40 to +70 °C and altitude at or below 2000 m.

Control functional testing

Isolate affected circuits before replacement. Use the test button only under an approved procedure, then verify coil actuation, contact states and machine response before release.

Acceptance evidence

Record the complete installed identity, connection photographs, final settings and functional test results. Resolve any mismatch before releasing the affected system.

Operating limits and system context

The relay is classified RT II and requires an installation location protected to at least IP54. Operating and storage temperatures are -40 to +70 °C, with an altitude limit of 2000 m. The coil-to-contact insulation is basic insulation, with overvoltage category III and pollution degree 2; the relay is not suitable for separating SELV/PELV circuits from other circuits. Plug-in mounting supports any orientation and zero-spacing rows, subject to the selected socket and enclosure arrangement.

04 / Functional acceptance planning

Application	Relationship to verify
Industrial contact switching	Switch four changeover circuits with the specified AgNi contacts. Evaluate the actual load type, current and voltage against the relevant contact ratings.
24 VDC control circuits	Operate the polarized monostable coil from a compatible 24 VDC control circuit. The 19.2–46.8 VDC range is specified at 20 °C and must retain that condition.
Local relay diagnostics	Use the yellow LED and mechanical position indication during controlled troubleshooting. The test button can affect connected circuits, so its use belongs within the machine test procedure.
Socket-based panel assembly	Install the relay in the correct matching socket within an enclosure providing at least IP54. Any-orientation mounting and zero-spacing rows do not replace socket and thermal checks.

Operating context

REL-IR-BL/L-24DC/4×21 1032527 is a plug-in, monostable industrial relay with four AgNi changeover contacts. Its polarized coil has a 24 VDC nominal input and a 19.2–46.8 VDC input range specified at 20 °C. Typical input current at nominal voltage is 32 mA. Typical response and release times are 15 ms and 10 ms respectively. A yellow bidirectional LED indicates status, and a separate mechanical indicator shows the switching position.

05 / Handover and supporting references

Technical review

It uses plug-in mounting with a matching relay socket. Any orientation and zero-spacing rows are permitted for the relay, while socket suitability and enclosure requirements remain part of the installation design.

Service planning

Preserve the full REL-IR-BL/L-24DC/4×21 1032527 identity and installed configuration. Obtain current manufacturer lifecycle and replacement guidance for that exact unit; Apter Power availability and dispatch are confirmed separately in the quotation.

Reference basis

Phoenix Contact 1032527 product data sheet, data status 22 October 2026.

Apter Power technical summary; not a manufacturer-issued manual. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

Phoenix Contact QUINT-PS/1AC/24DC/10 2866763

Phoenix Contact QUINT-PS-100-240AC/24DC/10 2938604

Phoenix Contact QUINT4-PS/1AC/12DC/15

Discuss your installed configuration

Send the full unit marking and connection details.

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