Emerson

KJ3001X1-CA1 12P1980X062

DeltaV 32-Channel 24 V DC Dry-Contact Discrete Input Card

This reference defines the engineering boundary of KJ3001X1-CA1 12P1980X062 using manufacturer-authored technical evidence and the exact supplied identity.

System position

Exact identity	System family	Functional role	Release basis
KJ3001X1-CA1 12P1980X062	DeltaV M-series Traditional I/O	Discrete Input Card	Recorded test and diagnostics

Control the identity boundary

Treat KJ3001X1-CA1 12P1980X062, its documented DeltaV 32-Channel 24 V DC Dry-Contact Discrete Input Card role and the receiving DeltaV M-series Traditional I/O position as one controlled identity.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact model	KJ3001X1-CA1 12P1980X062
I/O function	Discrete input
Channels	32
Input type	24 V DC dry contact
Key position	B3
Operating temperature	0 to +60 °C

Technical evidence record: Emerson-authored DeltaV scalable process system Zone 2 installation instruction

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Interfaces and integration

Trace the installed signal path

Integration review proceeds through mechanical, electrical, configuration and diagnostic interfaces before a replacement decision is released.

Exact model	KJ3001X1-CA1 12P1980X062
I/O function	Discrete input
Channels	32

Define the receiving position

The host review links the physical slot, companion hardware and retained engineering revision to the offered item.

Host	DeltaV M-series Traditional I/O
Primary role	acquisition of thirty-two 24 V DC dry-contact field states
Acceptance	Recorded diagnostic response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Model, designation and complete label
Mechanical	Position, seating and retention
Electrical	Loop supply and field conductors
Processing	Range, limits and correction
Supervision	Supply, range and wire-break states
Release	Controlled test with retained result

Configuration ownership

Keep assigned channel values under the approved project record.

Acceptance ownership

Name the retained result that authorizes handover of the measurement path.

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Technical resource bands

Only capabilities tied to the exact execution appear here; operating assignments remain configuration-controlled.

PARAMETER	VALUE
Exact model	KJ3001X1-CA1 12P1980X062
I/O function	Discrete input
Channels	32
Input type	24 V DC dry contact
Key position	B3

PARAMETER	VALUE
Operating temperature	0 to +60 °C
Field circuit classification	Non-sparking
Terminal execution	Match the installed 32-channel termination
Configuration rule	Restore each channel from the approved point list
Acceptance	Field contact state, channel indication and

Label decision

Accept the stated part number only when the complete installed identity agrees.

Circuit decision

Confirm the recorded field-circuit arrangement before reconnecting any loop.

Processing decision

Restore channel processing from the approved project rather than a neighboring position.

Evidence decision

Use diagnostic observations and a controlled response to support final handover.

Engineering boundary

A similar faceplate or matching channel total does not prove interchangeability. Resolve the host position, connection scheme and controlled revision before use.

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Controls and service logic

Identity control

Preserves the complete KJ3001X1-CA1 12P1980X062 execution.

Host integration

Matches the installed DeltaV M-series Traditional I/O position.

Interface control

Retains power, signal, keying and protective connections.

Release control

Uses diagnostics and a functional test to close the work.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Resolve label, designation and receiving position
2. Compare	Review circuit type, processing and supervision
3. Restore	Rebuild the recorded connection and configuration state
4. Demonstrate	Retain diagnostic and functional acceptance evidence

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Engineering decisions

How does KJ3001X1-CA1 12P1980X062 separate product capability from site-specific settings?

KJ3001X1-CA1 12P1980X062 is documented for acquisition of thirty-two 24 V DC dry-contact field states.

What must remain unchanged when KJ3001X1-CA1 12P1980X062 is moved into the approved position?

Match the entire model string, the installed position, keying, terminal hardware and approved system record before changeout.

Which diagnostic review is appropriate after energizing KJ3001X1-CA1 12P1980X062?

The verified value for channels is 32.

Why is the suffix in KJ3001X1-CA1 12P1980X062 part of the controlled identity?

Its function depends on the documented receiving position and connected hardware; similar appearance does not establish interchangeability.

How should an engineer verify KJ3001X1-CA1 12P1980X062 against the host drawing?

Record the full label, host position, wiring, connected devices, active settings and as-found diagnostics before isolation.

Which measurement or output path is served by KJ3001X1-CA1 12P1980X062?

Restore the documented interfaces, review diagnostics and functionally verify acquisition of thirty-two 24 V DC dry-contact field states before release.

Related Apter Power pages

- Emerson KJ4010X1-BF1 12P0831X062
- Emerson KJ3222X1-BA1 12P2532X072
- Emerson KJ3001X1-BJ1 12P0555X152

Technical evidence record: Emerson-authored DeltaV scalable process system Zone 2 installation instruction

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