

Product dashboard

Emerson KJ3222X1-BA1 12P2532X072 VE4033S2B1 is an eight-channel 4-20 mA HART analog-input assembly for the documented redundant standard termination execution. The controller treats a recognized redundant card pair as one logical I/O card.

Exact model

KJ3222X1-BA1
12P2532X072

Product type

DeltaV Redundant
8-Channel 4-20 mA HART

System family

DeltaV M-series
Traditional I/O

Functional role

Redundant Input
Assembly

PARAMETER	DOCUMENTED VALUE
Exact assembly	KJ3222X1-BA1 12P2532X072 VE4033S2B1
I/O function	Analog input with HART
Channels	8
Nominal signal	4 to 20 mA
Full signal range	1 to 22.5 mA with over-range checking
Resolution	16-bit A/D converter
Repeatability	0.05% of span
Redundant LocalBus current	175 mA typical; 250 mA maximum per card

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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KJ3222X1-BA1 12P2532X072 V

System overview

KJ3222X1-BA1 12P2532X072 VE4033S2B1 preserves the complete card and redundant-terminal identity needed for automatic switchover without changing field wiring.

Exact-position replacement

Matches KJ3222X1-BA1 12P2532X072 VE4033S2B1 to the recorded host, position and companion hardware before changeout.

Interface restoration

Rebuilds the documented power, signal, keying and protective interfaces for KJ3222X1-BA1 12P2532X072 VE4033S2B1.

Configuration-controlled service

Restores assignments and settings from the approved record instead of borrowing them from a neighboring device.

Acceptance and handover

Confirms diagnostics and a controlled functional response from KJ3222X1-BA1 12P2532X072 VE4033S2B1 before release.

SYSTEM POSITION	RECORD
Installed identity	KJ3222X1-BA1 12P2532X072 VE4033S2B1
Host relationship	DeltaV M-series Traditional I/O
Controlled function	redundant acquisition of eight 4-20 mA field-current channels with HART pass-through

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Technical data map

PARAMETER	VERIFIED VALUE
Exact assembly	KJ3222X1-BA1 12P2532X072 VE4033S2B1
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Channels	8
Nominal signal	4 to 20 mA
Full signal range	1 to 22.5 mA with over-range checking
Resolution	16-bit A/D converter
Repeatability	0.05% of span
Redundant LocalBus current	175 mA typical; 250 mA maximum per card
Field circuit power	300 mA maximum at 24 V DC (+10%)
Redundancy	Automatic recognition and switchover on a two-wide redundant terminal block
Termination	VE4033S2B1 redundant standard I/O termination block
Calibration	None required

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	redundant acquisition of eight 4-20 mA field-current channels with HART pass-through

Technical evidence record: Emerson DeltaV M-series Traditional I/O product data sheet, March 2026

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Applications and precautions

1

Confirm the complete KJ3222X1-BA1 12P2532X072 VE4033S2B1 marking and documented hardware role before work.

2

Place the connected process and controller hardware in the approved maintenance state.

3

Record the host position, companion parts, cable direction, terminal assignments and active configuration.

4

Isolate every documented power, signal and stored-energy source before disconnecting hardware.

5

Protect keyed connectors, electronic contacts and labeled field conductors during handling.

6

Restore only the recorded power, wiring, grounding, shielding and configuration arrangement.

7

Energize in a controlled sequence and review device, carrier, controller and field diagnostics.

8

Function-test redundant acquisition of eight 4-20 mA field-current channels with HART pass-through and retain the acceptance record before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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Buyer and engineering FAQ

Which field interface does KJ3222X1-BA1 12P2532X072 VE4033S2B1 place under configuration control?

KJ3222X1-BA1 12P2532X072 VE4033S2B1 is documented for redundant acquisition of eight 4-20 mA field-current channels with HART pass-through.

How does KJ3222X1-BA1 12P2532X072 VE4033S2B1 separate product capability from site-specific settings?

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

What must remain unchanged when KJ3222X1-BA1 12P2532X072 VE4033S2B1 is moved into the approved position?

The verified value for channels is 8.

Which diagnostic review is appropriate after energizing KJ3222X1-BA1 12P2532X072 VE4033S2B1?

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

Related Apter Power pages

[Emerson KJ4001X1-CC1 12P0733X042](#)

[Emerson KJ3101X1-BB1 12P1866X062](#)

[Emerson KJ3101X1-BA1 12P1865X062](#)

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