Product dashboard

Emerson KJ3222X1-BA1 12P2532X092 VE4003S2B2 is an eight-channel 4-20 mA HART analog-input assembly with fused I/O termination. Each input channel is optically isolated from the system and uses 16-bit conversion.

Exact model	Product type	System family	Functional role
KJ3222X1-BA1 12P2532X092	DeltaV 8-Channel 4-20 mA HART Analog Input	DeltaV M-series Traditional I/O	Analog Input Assembly

PARAMETER	DOCUMENTED VALUE
Exact assembly	KJ3222X1-BA1 12P2532X092 VE4003S2B2
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
LocalBus current	120 mA typical; 150 mA maximum in simplex service

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

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KJ3222X1-BA1 12P2532X092 V

System overview

KJ3222X1-BA1 12P2532X092 VE4003S2B2 brings eight current loops into one fused DeltaV input position while preserving the complete card, item-number and terminal-block identity.

Exact-position replacement

Matches KJ3222X1-BA1 12P2532X092 VE4003S2B2 to the recorded host, position and companion hardware before changeout.

Interface restoration

Rebuilds the documented power, signal, keying and protective interfaces for KJ3222X1-BA1 12P2532X092 VE4003S2B2.

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 12P2532X092 VE4003S2B2 before release.

SYSTEM POSITION	RECORD
Installed identity	KJ3222X1-BA1 12P2532X092 VE4003S2B2
Host relationship	DeltaV M-series Traditional I/O
Controlled function	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 12P2532X092 VE4003S2B2
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
LocalBus current	120 mA typical; 150 mA maximum in simplex service
Field circuit power	300 mA maximum at 24 V DC (+10%)
HART scan time	600 to 800 ms typical per enabled channel
Termination	Fused 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	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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KJ3222X1-BA1 12P2532X092 V

Applications and precautions

1. Confirm the complete KJ3222X1-BA1 12P2532X092 VE4003S2B2 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 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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KJ3222X1-BA1 12P2532X092 V

Buyer and engineering FAQ

How can technicians prove that KJ3222X1-BA1 12P2532X092 VE4003S2B2 was restored correctly?

KJ3222X1-BA1 12P2532X092 VE4003S2B2 is documented for acquisition of eight 4-20 mA field-current channels with HART pass-through.

When should KJ3222X1-BA1 12P2532X092 VE4003S2B2 be rejected as a substitute despite a similar appearance?

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

What acceptance record closes work on KJ3222X1-BA1 12P2532X092 VE4003S2B2?

The verified value for channels is 8.

Which field interface does KJ3222X1-BA1 12P2532X092 VE4003S2B2 place under configuration control?

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

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