KJ3002X1-BA1 12P0680X072 VE4003S2B2

Emerson / DeltaV HART analog input assembly

Emerson KJ3002X1-BA1 12P0680X072 VE4003S2B2 is offered for a DeltaV M-series I/O installation. The VE4003S2B2 catalog reference identifies an 8-channel 4–20 mA HART input assembly.

Product identity and system role

The VE4003S2B2 reference groups a DeltaV I/O card with its specified termination arrangement. In the control system, this input function transfers 4–20 mA HART information between the configured field circuit and controller. The physical KJ3002X1-BA1 and 12P0680X072 markings identify the offered hardware and must be reconciled with the VE assembly code.

The 8-channel catalog arrangement uses fused i/o termination block. The analog input channels acquire 4–20 mA process signals and support HART device information on suitable loops. Wiring and host assignments are governed by the installed project.

Verified technical characteristics

Card family	DeltaV M-series Traditional I/O
Physical card marking	KJ3002X1-BA1
Part number	12P0680X072
Catalog assembly reference	VE4003S2B2
Catalog I/O role	8-channel 4–20 mA HART input assembly
Termination arrangement	Fused I/O termination block
Analog loop	4–20 mA with HART
Catalog point count	8 channels

Engineering context

DeltaV input

Acquire process transmitter signals for indication, alarm and closed-loop control.

Field interface

The fused i/o termination block must match the installed wiring and carrier.

Control project

Retain the configured channel numbers, engineering units and alarm assignments.

System restoration

Return the affected channels to service only after the approved loop, I/O and diagnostic checks pass.

Configuration and verification

Match the complete marking: Compare KJ3002X1-BA1 12P0680X072 VE4003S2B2 with the installed label, part number and any revision.

Preserve the configuration: Record the existing channel assignment, host release and termination arrangement.

Review the field connection: Check the 4–20 mA HART wiring and the approved circuit drawing before transfer.

Protect the process: Place affected loops in their approved safe state and isolate power as required.

Selected engineering questions

How should the installed 4–20 mA HART channel map be preserved when replacing KJ3002X1-BA1 12P0680X072 VE4003S2B2?
Export or record each configured point and termination assignment, then compare the restored mapping with the project and loop drawings.

What could cause a healthy input card to remain offline after fitting KJ3002X1-BA1 12P0680X072 VE4003S2B2?
Check host compatibility, carrier connection, power, module recognition and the control-system diagnostic record before attributing the fault to the card.

How should field wiring be checked before commissioning KJ3002X1-BA1 12P0680X072 VE4003S2B2?
Compare conductor identification, polarity or commons, shielding and terminal assignment with the approved installation drawing.

Can KJ3002X1-BA1 12P0680X072 VE4003S2B2 be exchanged with a visually similar DeltaV card?
Physical fit is insufficient. Match the complete order marking, card role, termination hardware, host release and project configuration.

Which records help diagnose a changed reading or command after fitting KJ3002X1-BA1 12P0680X072 VE4003S2B2?
Compare the pre-service value, channel configuration, wiring test, module diagnostics and field-device response at a controlled operating point.

How should redundancy be reviewed for KJ3002X1-BA1 12P0680X072 VE4003S2B2?
Check whether the actual installed assembly is configured as a redundant pair and test the approved failover path; a redundant catalog reference alone is insufficient.

What acceptance test is appropriate after installing KJ3002X1-BA1 12P0680X072 VE4003S2B2?
Exercise or simulate affected points under the site procedure and verify expected controller indication, field response and alarms.

What should be included in the engineering handover for KJ3002X1-BA1 12P0680X072 VE4003S2B2?
Record the full physical marking, revision, installed position, terminal assignment, changed configuration and post-service test results.

Source and application boundary

Emerson DeltaV M-series Traditional I/O Product Data Sheet, September 2023.

VE4003S2B2 catalog characteristics describe the documented assembly. Confirm applicability of those characteristics to the complete KJ3002X1-BA1 12P0680X072 VE4003S2B2 physical marking and installed termination arrangement.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

Emerson KJ1501X1-BC1 12P2186X032 VE5008	Emerson KJ2003X1-BB1 12P3439X012
Emerson KJ2003X1-BB1 12P3439X012 VE3006	Emerson KJ3002X1-BF1 12P1732X082 VE4003S6B1
Emerson KJ3203X1-BA1 12P3270X042 VE4001S2T2B4	Emerson KJ3221X1-BA1 12P2531X102
Emerson KJ3221X1-BA1 12P2531X102 VE4035S2B1	Emerson KJ3222X1-BA1 12P2532X072 VE4033S2B1

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Send the complete model and installed-system details when requesting a quotation.