

KJ3241X1-BA1

DeltaV M-series serial interface card

Configured serial communication data between DeltaV and field equipment

PRODUCT SNAPSHOT

BRAND

Emerson

FAMILY

Emerson DeltaV M-series traditional I/O

PART

KJ3241X1-BA1

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PRODUCT OVERVIEW

Configured serial communication data between DeltaV and field equipment

1

Uses the exact 12P2506X032 assembly identity

2

Draws power from the twelve-volt local bus

3

Supports G3 industrial airborne environments

4

Uses a keyed D4 terminal-block position

SYSTEM COMPONENTS

DeltaV M-series I/O carrier

D4-keyed terminal block

compatible serial field device

DeltaV serial-dataset configuration

TECHNICAL NOTE

Verify KJ3241X1-BA1 and part number 12P2506X032, D4 keying, installed carrier position, serial electrical interface, baud rate, parity and dataset mapping; isolate field energy and prove each message path after installation.

TECHNICAL DATA

PARAMETER	VALUE
Part number	12P2506X032
Module type	Serial interface card
Local bus supply	12 V DC at 300 mA
Ambient temperature	-40 to +70 degC
Shock	10 g half-sine, 11 ms
Vibration, low frequency	1 mm peak-to-peak, 2 to 13.2 Hz
Vibration, high frequency	0.7 g, 13.2 to 150 Hz

PARAMETER	VALUE
Airborne contaminants	ISA-S71.04 G3
Relative humidity	5 to 95%, noncondensing
Ingress protection	IP20
Terminal-block key	D4
Calibration	Not required
Serviceable parts	None

ENGINEERING NOTE

Verify KJ3241X1-BA1 and part number 12P2506X032, D4 keying, installed carrier position, serial electrical interface, baud rate, parity and dataset mapping; isolate field energy and prove each message path after installation.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 3500-42M-SIL2-09-01	Related industrial automation product	View Bently Nevada 3500-42M-SIL2-09-01 page
Bently Nevada 330130-070-00-05	Related industrial automation product	View Bently Nevada 330130-070-00-05 page
Bently Nevada 330130-040-03-00	Related industrial automation product	View Bently Nevada 330130-040-03-00 page
Bently Nevada 330130-035-00-05	Related industrial automation product	View Bently Nevada 330130-035-00-05 page
Bently Nevada 330130-080-13-05	Related industrial automation product	View Bently Nevada 330130-080-13-05 page
Bently Nevada 330130-046-00-06	Related industrial automation product	View Bently Nevada 330130-046-00-06 page
Siemens 6SL3985-6TM00-0AA0	Related industrial automation product	View Siemens 6SL3985-6TM00-0AA0 page
Bently Nevada 330525-00	Related industrial automation product	View Bently Nevada 330525-00 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Serial analyzer integration

Uses the exact 12P2506X032 assembly identity

Package-unit serial communications

Draws power from the twelve-volt local bus

Legacy subsystem data exchange

Supports G3 industrial airborne environments

DeltaV serial-card replacement

Uses a keyed D4 terminal-block position

PRODUCT PRECAUTIONS

- 1 Verify the complete KJ3241X1-BA1 marking and its assigned Emerson DeltaV M-series traditional I/O position before work.
- 2 Place the connected serial analyzer integration process in the approved maintenance state.
- 3 Isolate applicable power and configured serial communication data between deltaV and field equipment field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed DeltaV M-series I/O carrier and D4-keyed terminal block against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended package-unit serial communications function and retain the final test result.

ENGINEER FAQ

Q1 Does KJ3241X1-BA1 match DeltaV M-series I/O carrier in a Serial analyzer integration installation?

Verify the complete KJ3241X1-BA1 marking, the documented Emerson DeltaV M-series traditional I/O position and the installed DeltaV M-series I/O carrier before fitting the assembly.

Q3 Which Emerson DeltaV M-series traditional I/O records should be captured before removing KJ3241X1-BA1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with KJ3241X1-BA1 before disconnection.

Q5 Which D4-keyed terminal block condition should be checked when KJ3241X1-BA1 reports an abnormal state?

Check the D4-keyed terminal block supply, seating and connection first, then compare channel diagnostics with the recorded KJ3241X1-BA1 baseline.

Q7 What maintenance evidence is required after KJ3241X1-BA1 is used for Legacy subsystem data exchange?

Retain the nameplate record, corrective action, final diagnostics and a controlled legacy subsystem data exchange functional-test result for KJ3241X1-BA1.

Q2 How should KJ3241X1-BA1 be wired when it must uses the exact 12p2506x032 assembly identity?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for KJ3241X1-BA1; then continuity-test the affected path.

Q4 What controlled test confirms that KJ3241X1-BA1 can draws power from the twelve-volt local bus?

Apply the approved field or simulated stimulus, observe the Emerson DeltaV M-series traditional I/O indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can KJ3241X1-BA1 be moved directly into Package-unit serial communications without validating DeltaV serial-dataset configuration?

No. Confirm the DeltaV serial-dataset configuration, revision, connection scheme and Emerson DeltaV M-series traditional I/O configuration before transferring KJ3241X1-BA1 to that duty.

Q8 How should KJ3241X1-BA1 be returned to service in DeltaV serial-card replacement?

Restore power under control, verify supports g3 industrial airborne environments, exercise the intended signal path and release KJ3241X1-BA1 only after the Emerson DeltaV M-series traditional I/O remains in its approved operating state.

SOURCE Emerson DeltaV KJ3241X1-BA1 Serial Interface Card certificate and installation information | KJ3241X1-BA1 product certification

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