

KC4011X1-BZ1

DeltaV redundant 48-pin analog I/O mass terminal

It provides redundant mass termination between configured M-series analog I/O channels and field wiring.

PRODUCT SNAPSHOT

BRAND

Emerson

FAMILY

DeltaV M-series redundant analog I/O

PART

KC4011X1-BZ1

HS CODE

8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE

+86 180 3023 5313

EMAIL

sales13@apterpower.com

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

It provides redundant mass termination between configured M-series analog I/O channels and field wiring.

1

Supports redundant analog I/O termination

2

Uses a 48-contact mass interface

3

Maintains paired-channel field connectivity

4

Works with documented 16-channel M-series AI/AO hardware

SYSTEM COMPONENTS

Paired DeltaV analog I/O cards

48-pin mass cables

Redundant carrier arrangement

Field marshaling and shield terminations

TECHNICAL NOTE

Isolate both redundant legs, label each mass cable and field pair, protect the 48-contact interface, reconnect the A/B paths exactly as documented, and verify switchover plus every active channel.

TECHNICAL DATA

PARAMETER	VALUE
Part number	KC4011X1-BZ1
Terminal type	48-contact mass terminal
I/O application	Redundant analog input/output
Module family	M-series 16-channel AI/AO

PARAMETER	VALUE
Ambient temperature	-40 to +70 degC
Supply voltage	30 V DC
Maximum current per channel	500 mA

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
KJ4001X1-BA3-12P3378X012...	Related Emerson product	View KJ4001X1-BA3-12P3378X012... page
1C31166G02	Related Emerson product	View 1C31166G02 page
EN-204-EN-204-00-000	Related Emerson product	View EN-204-EN-204-00-000 page
1C31169G02	Related Emerson product	View 1C31169G02 page
FX-490	Related Emerson product	View FX-490 page
ES0350-M1A05L-27N0	Related Emerson product	View ES0350-M1A05L-27N0 page
960177-02	Related Emerson product	View 960177-02 page
KJ2003X1-BB1	Related Emerson product	View KJ2003X1-BB1 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Redundant analog transmitter systems

Supports redundant analog I/O termination

High-availability output loops

Uses a 48-contact mass interface

Cabinet mass-termination renewal

Maintains paired-channel field connectivity

DeltaV redundancy commissioning

Works with documented 16-channel M-series AI/AO hardware

PRODUCT PRECAUTIONS

- 1 Verify the complete KC4011X1-BZ1 marking and the assigned DeltaV M-series redundant analog I/O position before work.
- 2 Place the connected machine or process in the approved maintenance state before disturbing KC4011X1-BZ1.
- 3 Isolate the applicable power and field energy, then confirm a safe state before disconnecting KC4011X1-BZ1.
- 4 Record connector, conductor, slot and configuration identities before removal of KC4011X1-BZ1.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies during handling.
- 6 Confirm that the installed companion hardware and approved project match the KC4011X1-BZ1 arrangement.
- 7 Restore power in a controlled sequence and review device, rack and host diagnostics.
- 8 Prove the intended function and retain the final test result before returning KC4011X1-BZ1 to service.

ENGINEER FAQ

Q1 Does KC4011X1-BZ1 match Paired DeltaV analog I/O cards in a Redundant analog transmitter systems installation?

Verify the complete KC4011X1-BZ1 marking, the documented DeltaV M-series redundant analog I/O position and the installed Paired DeltaV analog I/O cards before fitting the assembly.

Q2 How should KC4011X1-BZ1 be wired when it must supports redundant analog i/o termination?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for KC4011X1-BZ1; then continuity-test the affected path.

Q3 Which DeltaV M-series redundant analog I/O records should be captured before removing KC4011X1-BZ1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with KC4011X1-BZ1 before disconnection.

Q4 What controlled test confirms that KC4011X1-BZ1 can uses a 48-contact mass interface?

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

Q5 Which 48-pin mass cables condition should be checked when KC4011X1-BZ1 reports an abnormal state?

Check the 48-pin mass cables supply, seating and connection first, then compare channel diagnostics with the recorded KC4011X1-BZ1 baseline.

Q6 Can KC4011X1-BZ1 be moved directly into High-availability output loops without validating Field marshaling and shield terminations?

No. Confirm the Field marshaling and shield terminations, revision, connection scheme and DeltaV M-series redundant analog I/O configuration before transferring KC4011X1-BZ1 to that duty.

Q7 What maintenance evidence is required after KC4011X1-BZ1 is used for Cabinet mass-termination renewal?

Retain the nameplate record, corrective action, final diagnostics and a controlled cabinet mass-termination renewal functional-test result for KC4011X1-BZ1.

Q8 How should KC4011X1-BZ1 be returned to service in DeltaV redundancy commissioning?

Restore power under control, verify maintains paired-channel field connectivity, exercise the intended signal path and release KC4011X1-BZ1 only after the DeltaV M-series redundant analog I/O remains in its approved operating state.

SOURCE Emerson DeltaV equipment certification and M-series mass-connection documentation | KC4011X1-BZ1

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