

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	DeltaV M-series redundant analog I/O
Part number	KC4011X1-BZ1
HS code	8537101190

APTER POWER SALES TEAM

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Technical Specifications

Technical values below are limited to the named Emerson product record.

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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	Paired DeltaV analog I/O cards
Companion hardware	48-pin mass cables
Field connection	Redundant carrier arrangement
Primary system function	Supports redundant analog I/O termination
Controlled acceptance duty	Redundant analog transmitter systems

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System Role and Architecture

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

FUNCTION 1

Supports redundant analog I/O termination

FUNCTION 2

Uses a 48-contact mass interface

FUNCTION 3

Maintains paired-channel field connectivity

FUNCTION 4

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

Matched system components

- Paired DeltaV analog I/O cards
- 48-pin mass cables
- Redundant carrier arrangement
- Field marshaling and shield terminations

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	Paired DeltaV analog I/O cards
Companion hardware	48-pin mass cables
Field connection	Redundant carrier arrangement
Primary system function	Supports redundant analog I/O termination
Controlled acceptance duty	Redundant analog transmitter systems

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Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	KC4011X1-BZ1 / KC4011X1-BZ1 recorded
Physical interface	Paired DeltaV analog I/O cards
Companion check	48-pin mass cables
Functional proof	Supports redundant analog I/O termination
Application test	Redundant analog transmitter systems

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Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
38B6041X082	Related Emerson product	View 38B6041X082 page
KJ3222X1-BA1-12P2532 X092...	Related Emerson product	View KJ3222X1-BA1-12P2532X092... page
PR6424-013-140-CON02 1-91...	Related Emerson product	View PR6424-013-140-CON021-91... page
PR6424-000-041-CON04 1	Related Emerson product	View PR6424-000-041-CON041 page
KJ4001X1-BE1-12P0818 X072...	Related Emerson product	View KJ4001X1-BE1-12P0818X072... page
SP4401	Related Emerson product	View SP4401 page
SP3401	Related Emerson product	View SP3401 page
12P4705X062	Related Emerson product	View 12P4705X062 page

MANUFACTURER SOURCE RECORD

Emerson DeltaV equipment certification and M-series mass-connection documentation

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