KC4011X1-BW1

DeltaV simplex 48-pin AI Plus mass terminal

It terminates a simplex 48-pin mass-connection analog-input arrangement for DeltaV M-series I/O.

PRODUCT SNAPSHOT

BRAND	FAMILY
Emerson	DeltaV M-series mass-connection analog inp
PART	HS CODE
KC4011X1-BW1	8537101190

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PRODUCT OVERVIEW

It terminates a simplex 48-pin mass-connection analog-input arrangement for DeltaV M-series I/O.

1. Provides the 48-pin AI Plus mass termination
2. Connects field conductors to the assigned analog-input card
3. Supports simplex channel organization
4. Retains installed mass-cable identity

SYSTEM COMPONENTS

- DeltaV M-series analog-input card
- 48-pin mass-connection cable
- Field transmitters
- Approved cabinet termination plan

TECHNICAL NOTE

De-energize field circuits, record the mass-cable and terminal identities, protect the 48-pin interface from ESD and mechanical damage, and prove every analog channel after reconnection.

TECHNICAL DATA

PARAMETER	VALUE
Part number	KC4011X1-BW1
Terminal type	Simplex 48-pin AI Plus mass terminal
Field-circuit rating	30 V DC at 500 mA
Ambient temperature	-40 to +70 degC
Shock	10 g half-sine for 11 ms

PARAMETER	VALUE
Vibration; 2 to 13.2 Hz	1 mm peak-to-peak
Vibration; 13.2 to 150 Hz	0.7 g
Airborne contaminants	ISA-S71.04 Class G3
Relative humidity	5 to 95%, non-condensing

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
KJ2005X1-BK1-C2-A0SE3007	Related Emerson product	**View KJ2005X1-BK1-C2-A0SE3007 page**
8752-CA-NS-02	Related Emerson product	**View 8752-CA-NS-02 page**
KJ3241X1-BA1-12P2506X062	Related Emerson product	**View KJ3241X1-BA1-12P2506X062 page**
38B6041X082	Related Emerson product	**View 38B6041X082 page**
KJ3222X1-BA1-12P2532X092...	Related Emerson product	**View KJ3222X1-BA1-12P2532X092... page**
PR6424-013-140-CON021-91...	Related Emerson product	**View PR6424-013-140-CON021-91... page**
PR6424-000-041-CON041	Related Emerson product	**View PR6424-000-041-CON041 page**
KJ4001X1-BE1-12P0818X072...	Related Emerson product	**View KJ4001X1-BE1-12P0818X072... page**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Analog cabinet marshaling

Provides the 48-pin AI Plus mass termination

Mass-termination retrofit

Connects field conductors to the assigned analog-input card

Process transmitter integration

Supports simplex channel organization

DeltaV I/O maintenance

Retains installed mass-cable identity

PRODUCT PRECAUTIONS

1. Verify the complete KC4011X1-BW1 marking and the assigned DeltaV M-series mass-connection analog input position before work.
2. Place the connected machine or process in the approved maintenance state before disturbing KC4011X1-BW1.
3. Isolate the applicable power and field energy, then confirm a safe state before disconnecting KC4011X1-BW1.
4. Record connector, conductor, slot and configuration identities before removal of KC4011X1-BW1.
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-BW1 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-BW1 to service.

ENGINEER FAQ

Q1 Does KC4011X1-BW1 match DeltaV M-series analog-input card in a Analog cabinet marshaling installation?

Verify the complete KC4011X1-BW1 marking, the documented DeltaV M-series mass-connection analog input position and the installed DeltaV M-series analog-input card before fitting the assembly.

Q2 How should KC4011X1-BW1 be wired when it must provides the 48-pin ai plus mass termination?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for KC4011X1-BW1; then continuity-test the affected path.

Q3 Which DeltaV M-series mass-connection analog input records should be captured before removing KC4011X1-BW1?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with KC4011X1-BW1 before disconnection.

Q4 What controlled test confirms that KC4011X1-BW1 can connects field conductors to the assigned analog-input card?

Apply the approved field or simulated stimulus, observe the DeltaV M-series mass-connection analog input indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which 48-pin mass-connection cable condition should be checked when KC4011X1-BW1 reports an abnormal state?

Check the 48-pin mass-connection cable supply, seating and connection first, then compare channel diagnostics with the recorded KC4011X1-BW1 baseline.

Q6 Can KC4011X1-BW1 be moved directly into Mass-termination retrofit without validating Approved cabinet termination plan?

No. Confirm the Approved cabinet termination plan, revision, connection scheme and DeltaV M-series mass-connection analog input configuration before transferring KC4011X1-BW1 to that duty.

Q7 What maintenance evidence is required after KC4011X1-BW1 is used for Process transmitter integration?

Retain the nameplate record, corrective action, final diagnostics and a controlled process transmitter integration functional-test result for KC4011X1-BW1.

Q8 How should KC4011X1-BW1 be returned to service in DeltaV I/O maintenance?

Restore power under control, verify supports simplex channel organization, exercise the intended signal path and release KC4011X1-BW1 only after the DeltaV M-series mass-connection analog input remains in its approved operating state.

SOURCE Emerson ATEX Instruction Sheet for KC4011X1-BW1 | ATEX196; July 2021

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