

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	DeltaV M-series mass-connection analog input
Part number	KC4011X1-BW1
HS code	8537101190

APTER POWER SALES TEAM

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2

Technical Specifications

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

PARAMETER	TECHNICAL 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
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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	DeltaV M-series analog-input card
Companion hardware	48-pin mass-connection cable
Field connection	Field transmitters
Primary system function	Provides the 48-pin AI Plus mass termination
Controlled acceptance duty	Analog cabinet marshaling

3

System Role and Architecture

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

FUNCTION 1

Provides the 48-pin AI Plus mass termination

FUNCTION 2

Connects field conductors to the assigned analog-input card

FUNCTION 3

Supports simplex channel organization

FUNCTION 4

Retains installed mass-cable identity

Matched system components

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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	DeltaV M-series analog-input card
Companion hardware	48-pin mass-connection cable
Field connection	Field transmitters
Primary system function	Provides the 48-pin AI Plus mass termination
Controlled acceptance duty	Analog cabinet marshaling

4

Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	KC4011X1-BW1 / KC4011X1-BW1 recorded
Physical interface	DeltaV M-series analog-input card
Companion check	48-pin mass-connection cable
Functional proof	Provides the 48-pin AI Plus mass termination
Application test	Analog cabinet marshaling

5

Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
PR6426-000-131-CON041	Related Emerson product	View PR6426-000-131-CON041 page
PR6426-010-140	Related Emerson product	View PR6426-010-140 page
1X00781H01L	Related Emerson product	View 1X00781H01L page
38B6041X152	Related Emerson product	View 38B6041X152 page
38B5786X092	Related Emerson product	View 38B5786X092 page
PR6423-003-130-CON021	Related Emerson product	View PR6423-003-130-CON021 page
5X00226G04	Related Emerson product	View 5X00226G04 page
5X00481G04	Related Emerson product	View 5X00481G04 page

MANUFACTURER SOURCE RECORD

Emerson ATEX Instruction Sheet for KC4011X1-BW1

ATEX196; July 2021

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