

KJ4006X1-BP1

DeltaV S-series 40-Pin Mass Terminal Block

Emerson KJ4006X1-BP1 is a DeltaV S-series 40-pin mass terminal block for the assigned I/O card. It must be keyed and wired to match the documented channel configuration.

PRODUCT SNAPSHOT

BRAND
Emerson

FAMILY
DeltaV S-series I/O

PART
KJ4006X1-BP1

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

Emerson KJ4006X1-BP1 provides mass termination of documented S-series I/O field conductors through a keyed 40-pin interface in a documented DeltaV S-series I/O installation.

40-pin mass terminal block

30 V DC field-power rating

I/O-card keying requirement

Industrial environmental ratings

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1	IS210AEDBH4A	2
3	IS210AEPG2BCB	
4	IS215UCVEM01A	5
	IS200STAIH2ACB-IS200STAIH1ABB	6
		DS200CTBAG1ACC
7	DS200TBQGG1ABB	8
	DS200SLCCG3AGH	9
		DS200TCDAH1BHE

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented carrier position, keyed interfaces, field wiring and approved DeltaV configuration. Commissioning restores that architecture and verifies the affected function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product designation	S-series 40-pin mass terminal block
Field power	30 V DC at 3.2 A
Ambient temperature	-40 to +70 deg C
Shock	10 g half-sine for 11 ms
Vibration, 2-13.2 Hz	1 mm peak-to-peak
Vibration, 13.2-150 Hz	0.7 g

PARAMETER	VALUE
Relative humidity	5 to 95%, non-condensing
Airborne contaminants	ISA-S71.04 Class G3
Keying requirement	Set keys for the installed I/O card
Addition/removal with system power	Only with no I/O card and no field wiring
Maintenance	No user-serviceable parts; calibration not required
Hazardous-area marking	ATEX / IECEx Zone 2 component

RELATED PRODUCT PAGES

1 IS210AEDBH4A

2 IS200TDBSH2A

3 IS210AEPG2BCB

4 IS215UCVEM01A

5 IS200STAIH2ACB-IS200STAIH1ABB

6 DS200CTBAG1ACC

7 DS200TBQGG1ABB

8 DS200SLCCG3AGH

9 DS200TCDAH1BHE

TECHNICAL NOTE

Install KJ4006X1-BP1 only in the documented DeltaV S-series I/O arrangement. Preserve identity, keying, wiring and configuration, then verify diagnostics and mass termination of documented S-series I/O field conductors through a keyed 40-pin interface under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Mass-terminated field wiring

Connects the documented multi-conductor field interface to S-series I/O.

I/O cabinet replacement

Preserves the exact keying, pin map and conductor identification.

Prewired terminal installation

Allows controlled terminal preparation before the matched I/O card is installed.

Channel acceptance testing

Verifies every mapped conductor and assigned channel before release.

PRODUCT PRECAUTIONS

1

Verify the complete KJ4006X1-BP1 identity and the documented DeltaV S-series 40-Pin Mass Terminal

2

Place the connected process and DeltaV hardware in the approved maintenance state.

3

Isolate every documented power, signal and stored-energy source before disconnecting hardware.

4

Record the installed carrier position, keyed interfaces, terminals, conductors and active configuration.

5

Use ESD controls and protect keyed connectors, electronic contacts and field wiring during handling.

6

Restore only the exact documented power, wiring, grounding, shielding and DeltaV configuration.

7

Energize in a controlled sequence and review device, carrier, controller and process diagnostics.

8

Function-test mass termination of documented S-series I/O field conductors through a keyed 40-pin interface

RELATED APTER POWER PAGES

1

[IS210AEDBH4A](#)

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ENGINEER FAQ

Q1 **What connector format does KJ4006X1-BP1 provide?**

KJ4006X1-BP1 is the DeltaV S-series 40-pin mass terminal block.

Q2 **What field-power rating applies to KJ4006X1-BP1?**

The manufacturer instruction sheet specifies 30 V DC at 3.2 A.

Q3 **Why must KJ4006X1-BP1 keying be checked?**

Its rotary keys must match the installed I/O card so an incompatible card cannot be fitted.

Q4 **When may KJ4006X1-BP1 be added with system power present?**

Only when no I/O card and no field wiring are installed, and all hazardous-area conditions are satisfied.

Q5 **Which temperature range is documented for KJ4006X1-BP1?**

The approved ambient range is -40 to +70 deg C.

Q6 **What contamination class applies to KJ4006X1-BP1?**

The instruction sheet specifies ISA-S71.04 Class G3 airborne contaminants.

Q7 **Does KJ4006X1-BP1 require calibration or internal service?**

No. It has no user-serviceable parts and calibration is not required.

Q8 **How is KJ4006X1-BP1 wiring accepted after replacement?**

Check key positions, the complete 40-pin mapping, field-power polarity, continuity and response of every assigned channel.

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SOURCE Emerson ATEX74 instruction sheet for KJ4006X1-BP1 | Manufacturer evidence verified 29 September 2026

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