

INDUSTRIAL AUTOMATION PRODUCT

KJ2201X1-BA1

DeltaV SIS Logic Solver SLS 1508

It executes the configured safety-instrumented logic and coordinates SIS I/O for a DeltaV safety application.

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	DeltaV SIS safety system
Part number	KJ2201X1-BA1
HS code	8537101190

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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Part number	KJ2201X1-BA1
Product designation	SIS Logic Solver SLS 1508
Local bus power	24 V DC at 1 A
Field power	4 A maximum
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
ATEX marking	II 3G Ex ec IIC Gc
Functional safety capability	SIL 3

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	DeltaV SIS carrier
Companion hardware	Assigned SIS I/O modules
Field connection	24 V DC local-bus supply
Primary system function	Executes the validated SIS application
Controlled acceptance duty	Emergency shutdown logic

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System Role and Architecture

It executes the configured safety-instrumented logic and coordinates SIS I/O for a DeltaV safety application.

FUNCTION 1

Executes the validated SIS application

FUNCTION 2

Communicates across the DeltaV local bus

FUNCTION 3

Coordinates configured safety field power

FUNCTION 4

Provides certified SIL 3 capability

Matched system components

- DeltaV SIS carrier
- Assigned SIS I/O modules
- 24 V DC local-bus supply
- Validated safety application and proof-test record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	DeltaV SIS carrier
Companion hardware	Assigned SIS I/O modules
Field connection	24 V DC local-bus supply
Primary system function	Executes the validated SIS application
Controlled acceptance duty	Emergency shutdown logic

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Applications and Engineering Context

Emergency shutdown logic

Executes the validated SIS application

Burner management interlocks

Communicates across the DeltaV local bus

Rotating-equipment protection

Coordinates configured safety field power

Process-unit safety trips

Provides certified SIL 3 capability

TECHNICAL NOTE

Place the process in its validated safe state, remove field power before disconnecting the unit, do not service internal parts, restore the approved safety application and complete the required proof test.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	KJ2201X1-BA1 / KJ2201X1-BA1 recorded
Physical interface	DeltaV SIS carrier
Companion check	Assigned SIS I/O modules
Functional proof	Executes the validated SIS application
Application test	Emergency shutdown logic

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Engineering Precautions

1

Verify the complete KJ2201X1-BA1 marking and the assigned DeltaV SIS safety system position before work.

2

Place the connected machine or process in the approved maintenance state before disturbing KJ2201X1-BA1.

3

Isolate the applicable power and field energy, then confirm a safe state before disconnecting KJ2201X1-BA1.

4

Record connector, conductor, slot and configuration identities before removal of KJ2201X1-BA1.

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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
KJ4006X1-BD1	Related Emerson product	View KJ4006X1-BD1 page
KC4011X1-BZ1	Related Emerson product	View KC4011X1-BZ1 page
KC4011X1-BW1	Related Emerson product	View KC4011X1-BW1 page
3900-02-10	Related Emerson product	View 3900-02-10 page
396P-02-12-55	Related Emerson product	View 396P-02-12-55 page
396P-08-10-55	Related Emerson product	View 396P-08-10-55 page
KJ3002X1-BG2-12P1731X062	Related Emerson product	View KJ3002X1-BG2-12P1731X062 page
KJ3002X1-BB1-12P0683X082	Related Emerson product	View KJ3002X1-BB1-12P0683X082 page

MANUFACTURER SOURCE RECORD

Emerson ATEX Instruction Sheet for KJ2201X1-BA1

ATEX275; July 2021

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