Emerson

SLS1508 KJ2201X1-BA1 12P3162X162

SIS Logic Solver

This technical reference records only manufacturer-supported boundaries for Emerson SLS1508 KJ2201X1-BA1 12P3162X162. Undocumented suffix-specific features are intentionally excluded.

System position

Exact identity	System family	Functional role	Release basis
SLS1508 KJ2201X1-BA1 12P3162X162	DeltaV M-series	DeltaV SIS Logic Solver	Recorded test and diagnostics

Control the identity boundary

Within a DeltaV SIS node, the SLS1508 executes the configured safety logic and communicates through the approved SIS architecture. Replacement is an application-controlled activity requiring configuration identity, peer communication and proof-test evidence.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Complete item marking	SLS1508 KJ2201X1-BA1 12P3162X162
Documented base model	KJ2201X1-BA1
Documented product	SLS1508 SIS Logic Solver
LocalBus power	24 V DC at 1 A
Field power	24 V DC at 4 A maximum
Functional-safety use	Suitable for SIL 3 applications when applied in the approved architecture

Technical evidence record: KJ2201X1-BA1 SIS Logic Solver SLS1508, Emerson hazardous-location sheet

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Interfaces and integration

Trace the installed signal path

Trace the installed power, signal, communication and terminal path before changing any hardware or configuration. Keep the complete item marking linked to the

Complete item marking	SLS1508 KJ2201X1-BA1 12P3162X162
Documented base model	KJ2201X1-BA1
Documented product	SLS1508 SIS Logic Solver

Define the receiving position

The host review links the physical slot, companion hardware and retained engineering revision to the offered item.

Host	DeltaV M-series
Primary role	SIL 3 safety-logic execution
Acceptance	Recorded diagnostic response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Model, designation and complete label
Mechanical	Position, seating and retention
Electrical	Loop supply and field conductors
Processing	Range, limits and correction
Supervision	Supply, range and wire-break states
Release	Controlled test with retained result

Configuration ownership

Keep assigned channel values under the approved project record.

Acceptance ownership

Name the retained result that authorizes handover of the measurement path.

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Technical resource bands

Only capabilities tied to the exact execution appear here; operating assignments remain configuration-controlled.

PARAMETER	VALUE
Complete item marking	SLS1508 KJ2201X1-BA1 12P3162X162
Documented base model	KJ2201X1-BA1
Documented product	SLS1508 SIS Logic Solver
LocalBus power	24 V DC at 1 A
Field power	24 V DC at 4 A maximum
Functional-safety use	Suitable for SIL 3 applications when applied

PARAMETER	VALUE
Operating temperature	-40 to 70°C
Relative humidity	5 to 95%, non-condensing
Shock	10 g, 11 ms half-sine
Vibration	1 mm peak-to-peak at 2 to 13.2 Hz; 0.7 g at 13.2 to
Routine service	No field service or calibration

Label decision

Accept the stated part number only when the complete installed identity agrees.

Circuit decision

Confirm the recorded field-circuit arrangement before reconnecting any loop.

Processing decision

Restore channel processing from the approved project rather than a neighboring position.

Evidence decision

Use diagnostic observations and a controlled response to support final handover.

Engineering boundary

A similar faceplate or matching channel total does not prove interchangeability. Resolve the host position, connection scheme and controlled revision before use.

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Controls and service logic

Safety-logic execution

Runs the approved SIS application within the documented DeltaV safety architecture.

Peer and node communication

Maintains the recorded logic-solver identity and approved communication path.

Proof-test support

Provides diagnostic evidence for the site safety lifecycle and test procedure.

Controlled replacement

Requires application download, validation and formal return-to-service authorization.

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Resolve label, designation and receiving position
2. Compare	Review circuit type, processing and supervision
3. Restore	Rebuild the recorded connection and configuration state
4. Demonstrate	Retain diagnostic and functional acceptance evidence

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Engineering decisions

What is the documented purpose of Emerson SLS1508 KJ2201X1-BA1 12P3162X162?

Emerson SLS1508 KJ2201X1-BA1 12P3162X162 identifies a DeltaV SIS logic-solver assembly. Manufacturer documentation confirms KJ2201X1-BA1

Which product family contains Emerson SLS1508 KJ2201X1-BA1 12P3162X162?

The documented base model belongs to the DeltaV M-series product family.

Which function is documented for Emerson SLS1508 KJ2201X1-BA1 12P3162X162?

For the documented base model, documented product is SLS1508 SIS Logic Solver.

What channel or interface detail applies to Emerson SLS1508 KJ2201X1-BA1 12P3162X162?

For the documented base model, localbus power is 24 V DC at 1 A.

Which power boundary applies to Emerson SLS1508 KJ2201X1-BA1 12P3162X162?

For the documented base model, field power is 24 V DC at 4 A maximum.

Which environmental limit applies to Emerson SLS1508 KJ2201X1-BA1 12P3162X162?

For the documented base model, functional-safety use is Suitable for SIL 3 applications when applied in the approved architecture.

Related Apter Power pages

- Emerson VCCM8551G309MO
- Emerson KJ4006X1-BD1
- Emerson KC4011X1-BZ1

Technical evidence record: KJ2201X1-BA1 SIS Logic Solver SLS1508, Emerson hazardous-location sheet

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