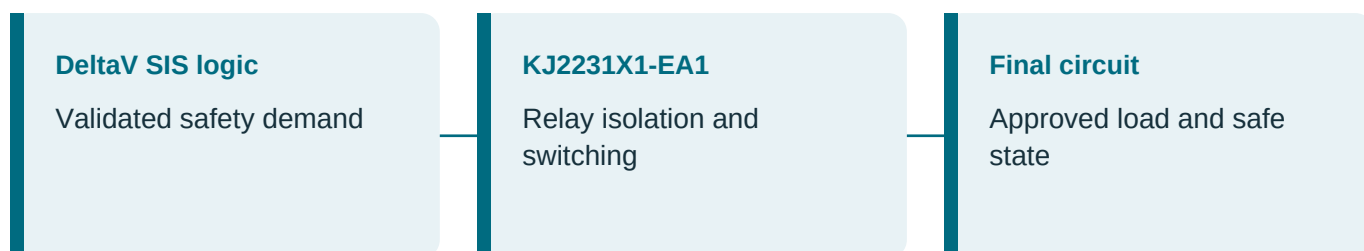


The relay module forms a controlled boundary between DeltaV SIS logic and the external switched circuit. Its installation must preserve the complete module identity, safe-state design, hazardous-area approval, relay load limits and system documentation.



- 1 Record the complete KJ2231X1-EA1 identity and SIS position.
- 2 Apply the approved safety-system bypass and safe-work procedure.
- 3 De-energize system and field power before removal or insertion.
- 4 Verify the connected load against the DC or AC relay rating.

PRE-WORK HOLD POINT

Confirm the complete KJ2231X1-EA1 marking, safe-state design, relay load, hazardous-area approval and DeltaV SIS validation record before work.

- 5 Preserve the engineered safe-state and contact wiring.
- 6 Do not disassemble, adjust or attempt field calibration.
- 7 Test the commanded and de-energized relay states with feedback.
- 8 Complete the approved proof test and record validation evidence.

CONNECTION DECISIONS

Before replacement, isolate system and field energy, record the relay wiring and the required de-energized state, and verify the connected load against the documented contact rating. After installation, test commanded state, de-energized state, feedback and the complete safety function under the approved proof-test procedure.

TECHNICAL ACCEPTANCE

Emerson states that the unit cannot be removed or inserted with system power energized, contains no user-serviceable parts and requires no calibration. The exact sheet lists Nemko 02ATEX431U, EEx nC IIC T4 and an ambient range of -40 to 70 degrees C.

What is Emerson KJ2231X1-EA1?

It is an Emerson DeltaV SIS relay module for interfacing safety logic to an external switched circuit.

What input power is specified for Emerson KJ2231X1-EA1?

The manufacturer sheet specifies 24 VDC at 70 mA.

What DC relay-contact rating applies to Emerson KJ2231X1-EA1?

The DC contact rating is 30 VDC at 2.5 A.

What AC relay-contact rating applies to Emerson KJ2231X1-EA1?

The AC contact rating is 250 VAC at 2.5 A.

Can Emerson KJ2231X1-EA1 be removed with system power energized?

No. Emerson states that this unit cannot be removed or inserted with system power energized.

Does Emerson KJ2231X1-EA1 require calibration?

No. Emerson states that calibration is not required and the module must not be disassembled.

Which ambient range is documented for Emerson KJ2231X1-EA1?

The instruction sheet lists -40 to +70 degrees C with 5 to 95% non-condensing relative humidity.

AS-LEFT TECHNICAL CHECK

Before replacement, isolate system and field energy, record the relay wiring and the required de-energized state, and verify the connected load against the documented contact rating. After installation, test commanded state, de-energized state, feedback and the complete safety function under the approved proof-test procedure.

RELEASE HOLD POINT

Confirm the complete KJ2231X1-EA1 marking, safe-state design, relay load, hazardous-area approval and DeltaV SIS validation record before work.

MANUFACTURER SOURCE

Emerson Process Management ATEX Instruction Sheet ATEX18, KJ2231X1-EA1 SIS Relay Module, July 2011

Related Emerson catalog pages

Browse related automation products. These links do not establish interchangeability.

Emerson KJ3224X1-BA2 13P0137X022

[View product](#)

Emerson KJ3241X1-BA1 12P2506X032

[View product](#)

Emerson KJ3241X1-BK1 12P4710X022

[View product](#)

AS-LEFT RECORD

Confirm the complete KJ2231X1-EA1 marking, safe-state design, relay load, hazardous-area approval and DeltaV SIS validation record before work.

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KJ2231X1-EA1