

# KJ3001X1-BA1 DI, 8-Channel, 24 VDC, Isolated Card

## Hazardous Atmosphere



Nemko No. 02ATEX431U  
EEx nA IIC T4

## Power Specifications

LocalBus power rating 12 VDC at 100 mA  
Field circuit rating 24 VDC at 5 mA/channel

## Environmental Specifications

Ambient Temperature 0 to 60°C  
Shock 10g ½ Sinewave for 11 msec  
Vibration 1mm Peak to Peak from 5 to 16Hz;  
0.5g from 16 to 150Hz  
Airborne Contaminants ISA-S71.04 –1985 Airborne  
Contaminants Class G3  
Relative Humidity 5 to 95% Non-Condensing IP 20  
Rating  
Terminal block key position B2

**Note:** Refer to the product label for serial number and location and date of manufacture. Refer also to the wiring diagram on the left side of the card.

**Warning:** This product has specific instructions for installation, removal and operation in hazardous areas. Refer to document 12P2046 "*DeltaV™ Scalable Process System Zone 2 Installation Instructions*". Other installation instructions are available in the "*Installing Your DeltaV Automation System*" manual.

## Removal and Insertion

Field power supplied to this device, either at the field terminal or as bussed field power through the carrier, must be removed before removing or connecting the device.

This unit may be removed or inserted while system power is energized under the following conditions: **(Note** Only one unit at a time may be removed or inserted with system power energized.)

- When used with KJ1501X1-BC1 System Dual DC/DC Power Supply operating on either 24 VDC or 12 VDC input power, The primary circuit wiring inductance less than 23 uH, or a certified supply with an open circuit voltage,  $U_i$  of 12.6 VDC and an  $L_o$  of less than 23 uH (including wire inductance).
- Non sparking field circuits **MUST** be de-energized before removing and inserting this product.

A terminal block fuse may NOT be removed with field power energized for non-sparking circuits.

A rotary keying system ensures compatibility between I/O cards and terminal blocks after installation is complete. The terminal block must have the keys set for the I/O card with which it is used.

## Maintenance and Adjustment

This unit contains no user serviceable parts and should not be disassembled for any reason. Calibration is not required.

## Other Safety Approvals

