KL3022X1-BA1 AO 4-20mA HART CHARM

Hazardous Atmosphere

II 3G Ex nA [nL] IIC Gc
II 3G Ex ec [ic] IIC Gc
FM19ATEX0173U
IECEx FMG 19.0019U
FM21UKEX0017U

CL. I Div. 2 GP. A,B,C,D
CL. I Zone 2 AEx/Ex ec [ic] IIC Gc
FM17US0286U
FM17CA0145U

Power Specifications

CHARM Bus power rating	+6.3 VDC at 32 mA
Field circuit rating	+24 VDC at 30 mA

Environmental Specifications

Ambient Temperature	-40 °C to +70 °C
Shock	10 g half-sine wave for 11 ms
Vibration	1mm Peak to Peak from 2 to 13.2Hz; 0.7g from 13.2 to 150Hz
Airborne Contaminants	ISA-S71.04 –1985 Airborne Contaminants Class G3
Relative Humidity	5 to 95% Non-Condensing
Terminal block key position	4A

Note: Refer to the product label for serial number and location and date of manufacture.

Warning: This product has specific instructions for installation, removal and operation in hazardous areas. Refer to document 12P5403 *"DeltaV™ Electronic Marshalling Digital Automation System (CHARM I/O Subsystem) Zone 2 Installation Instructions".* Other installation instructions are available in the *" DeltaV™ S-series and CHARMs Hardware Installation"* manual.

Removal and Insertion

This unit cannot be removed or inserted with system power energized unless the area is known to be non-hazardous.

An I/O loop assessment must be completed on all energy-limited nodes.

A keying system ensures compatibility between a CHARM and the CHARM terminal block when the CHARM is installed on the terminal block. The terminal block keys are automatically set the first time the CHARM is installed on the terminal block. To install another CHARM type on a terminal block, reset the keys by removing the terminal block and releasing the keys from the locked position.

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