DELTAV REDUNDANT DI

Product Data Sheet

KC4011X1-BC1 12P6745X012

Redundant 32-channel DI terminal block

TERMINATION CHANNELS	I/O CONFIGURATION	FIELD VOLTAGE RATING	FIELD CURRENT RATING
32	**Redundant DI**	**30 V DC**	**5 mA/channel; 160 mA total**

Emerson KC4011X1-BC1 12P6745X012 is a redundant 32-channel digital input terminal block for DeltaV I/O. It provides the field termination arrangement for the matching redundant DI card configuration and uses rotary key position E3 to distinguish its connection requirements from other I/O terminal blocks.

01 TECHNICAL DATA

Termination channels	32
I/O configuration	Redundant DI
Field voltage rating	30 V DC
Field current rating	5 mA/channel; 160 mA total
Terminal key position	E3
Operating temperature	-40 to +70 °C
Shock resistance	10 g, 11 ms half-sine
Vibration displacement	1 mm peak-to-peak, 2–13.2 Hz
Vibration acceleration	0.7 g, 13.2–150 Hz
Relative humidity	5–95%, non-condensing

02 ADDITIONAL PRODUCT DATA

Corrosion severity	ISA-S71.04-1985 Class G3
Explosion protection	II 3G Ex ec IIC Gc
ATEX certificate	FM19ATEX0173U
IECEx certificate	IECEx FMG 19.0019U
UKEX certificate	FM21UKEX0017U

03 PRODUCT FUNCTION

The field circuit is rated at 30 V DC with a current rating of 5 mA/channel; 160 mA total. The terminal block operates at ambient temperatures from -40 to +70 °C, with 5–95% non-condensing relative humidity and ISA-S71.04 Class G3 airborne-contaminant severity. Its installation arrangement supports the documented redundant channel termination and keyed card interface.

04 SYSTEM COMPATIBILITY

The field circuit rating is 30 V DC at 5 mA/channel; 160 mA total. Plan wiring and connected circuits around this termination rating, keeping it separate from the power specifications of the installed I/O card. Follow the DeltaV S-series hardware instructions for the complete carrier and field-wiring arrangement.

05 REFERENCE

Emerson KC4011X1-BC1 ATEX158, July 2021

AMIKON PRODUCT SUPPORT
+86-18020776786 INFO@AMIKON.CN AMIKONG.COM