ATEX Instruction Sheet
Part Number: ATEX6
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VerticalPLUS Cables

KJ4003X1-BH1 VerticalPLUS Standard Cable

KJ4003X1-BH2 VerticalPLUS Short Cable

Hazardous Atmosphere

II 3 G

Nemko No. 02ATEX431U
EEx nA IIC T4

Power Specifications

LocalBus Circuit Power	12.6 VDC at 15 A

Environmental Specifications

Ambient Temperature	-40 to 70° 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

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 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

This unit cannot be removed or inserted with system power energized.

Power must be de-energized before disconnecting any carriers or LocalBus Extender cables.

This product must **not** be unplugged unless either the system has been de-energized or the area is known to be safe. No combination of I/O carriers and LocalBus Extenders must exceed a length of 6.5 meters. Interconnecting cable between enclosures must be in conduit.

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

FM APPROVED CL. I Div. 2 GP.A,B,C,D HAZ.LOC. TEMP. Rating T4

CE SP LR87534

EMERSON. Process Management

Emerson Process Management
Austin, Texas

S-series Horizontal Carriers

August 2022

Benefits

Modular design allows flexible installation. A T- type DIN rail is all you need to mount the power/controller carrier into place. Snap the I/O interface carriers to the rail and slide to connect it to the carrier on the left. Add as many carriers as needed, or use extender cables to move to a new rail. The DeltaV system's modular design approach allows you to add I/O carriers as you need them.

Allows you to expand online. Additional 8-wide carriers may be added online as desired. Bus extenders provide dual cabling for robustness, allowing up to 8 I/O carriers for a total of 64 simplex cards or 32 redundant cards.

Integrated power distribution. Controller and I/O interface power distribution is integrated into the carriers to reduce and simplify power and grounding. I/O Carriers have an integrated shield ground bar to isolate and drain field noise away from system power. They also provide an integrated redundant 24V DC bussed field power distribution to reduce installation wiring and provide fused, isolated power to each I/O interface, using Power Buss Plugs. Alternatively, the I/O carriers can be ordered with Power Terminal Plugs to bring dedicated power to each card, which can be either 24V DC or 120/230V AC. Power Buss Plugs and Power Terminal Plugs can be mixed on one I/O Carrier.

A single Power Terminal Plug will come with any 120V AC DI or 120/230V AC DO card.

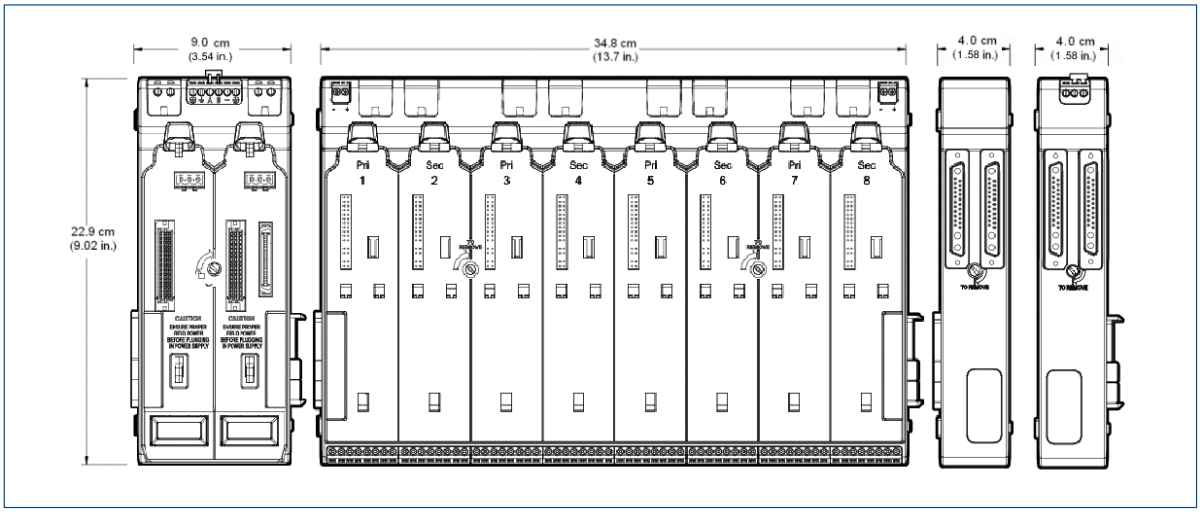
Snap In Assembly. All components snap into place without the use of special tools. The design supports and "easy on" design to speed up installation and reduce maintenance turnaround. Carriers snap onto T-DIN Rails. All interfaces and system power supplies snap into place, eliminating retention screws.

Product Description

The S-series IO subsystem has been redesigned with a focus on fast assembly and simplified power connections. The system uses only 24V DC bulk power supplies. All power is connected to system carriers. Bus connectors have been upgraded to support additional 12V DC power to the IO cards, allowing additional power carriers to be inserted anywhere along the bus.

Carriers mount to standard t-type DIN rail with latches that require no tools for quick installation. The latches can be released using a blade screw driver. Simply snap the carrier to the rail and slide adjacent carriers together to engage the bus connector.

The I/O carrier supports 8 IO modules. Each card can be connected to an internal 24V DC bus using the Power Buss Plugs, or it can be individually powered by using the Power Terminal Plugs. The internal 24V DC bus is divided into primary and secondary power, with primary power distributed to odd numbered slots and redundant power distributed to even numbered slots using the Power Buss Plugs.



The DeltaV modular I/O subsystem is easy to install and maintain

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Carrier Blank Cap Information

Description	Model Number
Carrier Blank Cap (for 8-Wide I/O Interface Carrier only)	SE6101
Carrier Blank Cap (for 2-Wide Power and Controller Carrier only)	SE6102

Spare Extender and Cable ordering Information

Spare Parts	
Description	**Model Number**
Left Extender 1-Wide	KJ4005X1-BB1
Right Extender 1-Wide	KJ4005X1-BC1
Single Carrier Extender Cable 0.4m (17in)	KJ4003X1-BH2
Single Carrier Extender Cable 0.8m (31in)	KJ4003X1-BH3
Single Carrier Extender Cable 1.1m (43in)	KJ4003X1-BH1
Single Carrier Extender Cable 1.5m (58in)	KJ4003X1-BH4
Single Carrier Extender Cable 1.9m (77in)	KJ4003X1-BH5

Spare Extender and Cable ordering Information

Spare Parts	
Description	**Model Number**
Power Terminal Plug for 2-Wide and 8-Wide Carriers	KJ4005X1-BF1
Power Buss Plug for 8-Wide Carriers	KJ4005X1-BG1
Power Terminal Plugs for 2-Wide and 8-Wide Carriers; package of 8 plugs	SE6197
Power Buss Plugs for 8-Wide Carriers; package of 8 plugs	SE6198

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