Emerson KJ4005X1-BC1

01 Map the right-hand extension

1. Record the right-hand carrier position, mating extender and cable route. Identify every downstream module affected by the intervention and retain the approved carrier layout.

2. ### Right-hand extension — acceptance

   The replacement is assigned to the correct side and its downstream service boundary is known.

Stage record	Map the right-hand extension observations and acceptance result
Extender position	Right-hand, one-wide
LocalBus power rating	12 V DC at 15 A

02 Isolate and inspect the route

1. Remove system power before disconnecting the extender. Check the full carrier-plus-extender length, inter-enclosure conduit and the support provided near the mating connectors.

2. ### Isolated route inspection — acceptance

   The route remains within the permitted system length and the disconnected assembly is free of imposed cable strain.

Stage record	Isolate and inspect the route observations and acceptance result
Carrier-plus-extender length	6.5 m maximum
Ambient temperature	−40 to +70 °C

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03 Restore the mating assembly

1. Follow the S-series installation procedure and fit the right-hand extender with the specified mating hardware. Check contacts and latches before completing the supported cable route.

2. ### Mating assembly — acceptance

   The extender is fully engaged in its intended orientation and no connector is forced to compensate for a misaligned cable.

Stage record	Restore the mating assembly observations and acceptance result
Relative humidity	5–95%, non-condensing
Shock rating	10 g, half-sine, 11 ms

04 Validate downstream operation

1. Restore power in the approved sequence and review the status of the affected carrier modules. Exercise representative I/O transactions and observe stability under the normal operating load.

2. ### Downstream operation — acceptance

   All affected modules communicate and operate without intermittent loss attributable to the restored extension.

Stage record	Validate downstream operation observations and acceptance result
Vibration, 13.2–150 Hz	0.7 g
Airborne contaminants	ISA-S71.04 G3

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05 Complete the carrier handover

1. Inspect the completed route, covers and enclosure transitions. Record the extender identity and downstream checks, preserving the existing carrier configuration for future maintenance.

2. ### Carrier handover — acceptance

   The final installation is mechanically supported, electrically restored and tied to a verified system-level acceptance record.

Technical basis: DeltaV S-Series System Carriers, ATEX60, January 2024.

Related product navigation

Emerson KJ4001X1-BA3 12P3378X012 VE3051C0

Emerson KJ3221X1-BA1 12P2531X122 VE4003S2B2

Emerson KJ3222X1-BA1 12P2532X112 VE4003S2B2

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