Siemens 6ES5430-4UA12

01 Map group and enable wiring

01

Switching signal

Retain the original configuration before disturbing hardware.

Map group and enable wiring — field actions

Record rack address, terminals, reference and jumper arrangement. Identify separate sensor supplies and isolate the circuits under the approved procedure.

Configuration identified

Channel identity and common control are retained.

Group map and terminal identity

Group map	Record all field references and the shared enable arrangement.
Terminal identity	Retain front-connector and controller address assignments.

Configuration record	Hardware identities and original settings retained
Following activity	Measure loaded sensor states

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02 Measure loaded sensor states

02

Threshold/delay

Protect the physical and electrical installation boundary.

Measure loaded sensor states — field actions

Check representative sensors at module terminals in both states. Include cable drop and residual sensor current when comparing guaranteed thresholds.

Mounting / circuit accepted

Input states have sufficient voltage margin.

Low-state margin and high-state margin

Low-state margin	Measure loaded off-state voltage at representative input terminals.
High-state margin	Measure the same circuits in the active sensor state.

Installation record	Inspected interfaces and resolved defects retained
Following activity	Restore connectors and reference

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03 Restore connectors and reference

03

Common enable group

Resolve connection and configuration differences before energization.

Restore connectors and reference — field actions

Inspect the front connector, common supply/reference and F+/F− arrangement. Avoid assumptions from differently grouped input modules.

Connections reconciled

Wiring matches the exact execution.

Enable restoration and reference continuity

Enable restoration	Compare final F+/F− wiring and jumper state with the approved arrangement.
Reference continuity	Check the intended common field reference after connector seating.

Connection record	Final wiring and configuration assignments retained
Following activity	Test pulse timing and addresses

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04

S5 input image

Evaluate actual response under controlled conditions.

Test pulse timing and addresses — field actions

Operate known inputs and observe the controller image. Use actual pulse duration and repetition for time-sensitive signals and check adjacent channels.

Functional response accepted

Signals reach the intended addresses in time.

Pulse evidence and channel separation

Pulse evidence	Record test pulse duration, repetition and program observation.
Channel separation	Confirm only the intended address changes during each controlled input test.
Response record	Test conditions, observed response and deviations retained
Following activity	Accept group fault behavior

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05 Accept group fault behavior

05

Common enable

Return control only after reviewing the complete test outcome.

Accept group fault behavior — field actions

Test required supply/enable-loss response safely, restore connections and retain measured values and the final map.

Return-to-service evidence

Normal and group-level fault behavior are accepted.

Separate related-equipment review

Siemens 6ES7222-1BH32-0XB0

Siemens 6ES7307-1EA01-0AA0

Siemens 6ES7532-5HF00-0AB0

Assess each related item independently; these references do not establish replacement compatibility.