# Emerson IC695MDL664

## 01 Map groups and sensors

1. Mark the input channels, common groups and sensor supplies on the wiring schedule. Identify which channels use wiring diagnostics and locate their external diagnostic components before disconnecting field conductors.

2. Use the terminal schedule to distinguish the two common groups and their field supplies. Verify one representative circuit from each group before extending the check to all channels, retaining the actual sensor polarity.

| Record to retain | Map groups and sensors |
| --- | --- |
| Circuit or system boundary | PACSystems RX3i |

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## 02 Restore diagnostic networks

1. Install each resistor arrangement for the intended fault-detection mode. Check continuity and resistor placement without applying uncontrolled test voltages to the input.

2. Compare each diagnostic network with the sensor and wiring arrangement for that input. Record missing or incorrectly connected components before enabling diagnostics; software settings cannot compensate for a different external circuit.

| Record to retain | Restore diagnostic networks |
| --- | --- |
| Circuit or system boundary | PACSystems RX3i |

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## 03 Set filtering deliberately

1. Choose filter values from the valid pulse durations and noise environment. Check the combined delay in the control sequence before commissioning fast events.

2. Present a valid pulse of known duration while observing the raw input and application state. Retain the chosen filter only when it rejects the expected disturbance without suppressing the shortest legitimate event.

| Record to retain | Set filtering deliberately |
| --- | --- |
| Circuit or system boundary | PACSystems RX3i |

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## 04 Test individual fault classes

1. Exercise normal ON/OFF behavior and the supported open-wire and short-circuit cases. Compare channel LEDs with program diagnostics for each tested input.

2. Simulate only faults permitted by the installation procedure and record their individual status indications. Do not accept a general alarm as evidence that loss of field power and a channel wiring fault are distinguished correctly.

| Record to retain | Test individual fault classes |
| --- | --- |
| Circuit or system boundary | PACSystems RX3i |

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## 05 Review group loading

1. Verify supply stability, simultaneous ON-channel loading and ambient conditions. Clear test faults and retain both state and diagnostic acceptance results.

2. Measure group supply voltage under the intended connected load. Restore all test wiring and confirm that channel diagnostics return to their normal state before handing the input group back to operation.

Technical basis: Emerson PACSystems RX3i System Manual, GFK-2314AG.

## Related product navigation

General Electric IC693PWR321

General Electric IC693CMM321

These are related references, not confirmed substitutes or an automatically approved assembly.