Allen-Bradley 1771-SDN

Installation & Commissioning Guide

01 Job scope and safe-work boundary

Allen-Bradley 1771-SDN is a two-channel DeviceNet scanner for a compatible PLC-5 and 1771 I/O installation. The photographed unit is Series B, firmware revision G.

Offered marking	Allen-Bradley 1771-SDN
Installed host or system	PLC-5 / 1771 DeviceNet
Included-item check	Confirm the Series B scanner and both DeviceNet connectors; chassis, network power and field cabling are separately specified.
Pre-work identity	The photographed label reads CAT. NO. 1771-SDN, SERIES B, FIRMWARE REV. G, part marking 96225675 A01. Confirm the supplied label against the quotation.

Work boundary

Follow the machine and chassis isolation procedure before removing the scanner.

02 Readiness checks

Check	Required evidence
Isolate the chassis	Follow the machine and chassis isolation procedure before removing the scanner.
Check nameplate	Confirm Series B and firmware G on the offered unit; record the installed revision.
Budget backplane power	Allow 1.2 A at 5 V DC for the photographed Series B unit.
Check network supply	Keep DeviceNet power within the nameplate maximum of 25 V DC.
Restore both channels	Record both sets of network addresses, rates, cabling and scan lists before exchange.
Prove PLC communication	Test both channel status displays and PLC I/O data after commissioning.

Configuration hold point

The pictured 1771-SDN is Series B, firmware G; a Series C spare requires its documented earlier-series compatibility setting.

03 Fit and reconnect

Stage	Action	Record / hold point
01 Confirm	The photographed label reads CAT. NO. 1771-SDN, SERIES B, FIRMWARE REV. G, part marking 96225675 A01. Confirm the supplied label against the quotation.	Full label and installed-system reference recorded
02 Isolate	Follow the machine and chassis isolation procedure before removing the scanner.	Site isolation confirmed before handling
03 Match	Confirm Series B and firmware G on the offered unit; record the installed revision.	Interface and configuration match confirmed
04 Connect	Allow 1.2 A at 5 V DC for the photographed Series B unit.	Conductor or connector map checked
05 Restore	Keep DeviceNet power within the nameplate maximum of 25 V DC.	System limits and protection reviewed

Variant boundary

Series B identity and electrical nameplate values come from the pictured unit; the installation publication describes common 1771-SDN architecture and Series C replacement compatibility.

04 Commissioning acceptance

Verification	Expected observation	If different
Identity	1771-SDN remains the complete installed reference	Stop and reconcile the marking
Physical fit	Record both sets of network addresses, rates, cabling and scan lists before exchange.	Recheck connector, terminal or panel
Functional proof	Test both channel status displays and PLC I/O data after commissioning.	Trace the affected circuit or status
System record	PLC-5 / 1771 DeviceNet configuration matches the installation	Restore the recorded configuration

Recorded evidence

Retain the full marking, applicable system configuration, field check and observed result with the maintenance record.

05 Fault response and handover

Question	Review path
Can a Series C unit replace Allen-Bradley 1771-SDN Series B directly?	Rockwell describes a Series C replacement path, but its configuration switch must select Series B-compatible operation before replacement.
What configuration should be preserved when replacing Allen-Bradley 1771-SDN?	Record chassis addressing, both channel node and rate settings, scan lists, network wiring and PLC transfer mapping.
How should Allen-Bradley 1771-SDN be checked after installation?	Confirm scanner and both network status indications, then prove field-device data exchange against the PLC application.

Handover

Confirm the Series B scanner and both DeviceNet connectors; chassis, network power and field cabling are separately specified.

Technical source

Rockwell Automation 1771-SDN DeviceNet Scanner Module Installation Instructions, 1771-IN014B-EN-P; offered 1771-SDN Series B nameplate

Discuss the complete reference

Allen-Bradley 1771-SDN

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