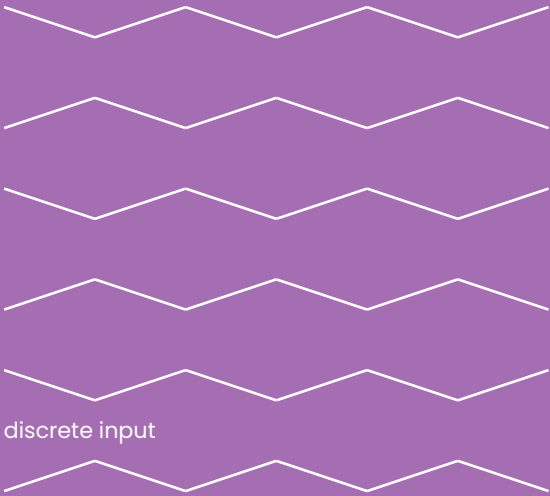


MANUFACTURER-SOURCE TECHNICAL REFERENCE

Woodward 9905-971

LinkNet Input Verification Guide

Woodward First-generation LON LinkNet 16-channel 24 V DC discrete input module



DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited Woodward manufacturer sources. No product photograph is included.

Product / lookup identity	Woodward 9905-971
Reference number	9905-971
Document basis	Published Woodward product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/WOODWARD/9905-971>

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Field input and LinkNet data path

Woodward 9905-971 is an obsolete first-generation LON LinkNet distributed I/O module with 16 discrete input channels for 24 V DC field-contact signals. It receives open/closed states from field switches and relay contacts, passes each energized input through an optoisolator and channel LED into its shift-register and local processor, and transmits the resulting states over the LON LinkNet transceiver to the host controller.

01	Field Inputs: Sixteen on/off states from field switches and relay contacts using the module's 24 V DC discrete-input circuits.
02	Channel Processing: A closed contact energizes the channel, passing the state through an optoisolator and LED to the shift register; the module processor reads the state.
03	Network Transfer: The module processor transmits channel states through the LinkNet transceiver to the host controller over the LON network.
04	Diagnostics: Channel LEDs indicate closed contacts. A FAULT LED reports module-processor status; address, type, and no-message faults are annunciated by the host application when configuration or communication is incorrect.
05	Timing Scope: Woodward describes LinkNet I/O as suitable for functions that are not time-critical, such as sequencing and monitoring.

Legacy network and migration boundaries

01	Verification Status: VERIFIED_EXACT_PART_NUMBER_AND_FUNCTION_FROM_WOODWARD_MANUAL_AND_PRODUCT_CHANGE_NOTICES
02	Exact Mapping: Woodward identifies part 9905-971 as a 16-channel discrete-input LinkNet module for 24 V DC field contacts.
03	Lifecycle Status: Obsolete; final production stopped. Woodward's October 2023 PCN states that 9905-971 and the other first-generation LON LinkNet modules would be marked inactive in January 2024, with final and permanent production stop and inventory clearance.

Input-module verification checks

01	Treat 9905-971 as obsolete. Woodward permanently stopped production and marked the first-generation LON LinkNet parts inactive beginning January 2024.
02	Verify the exact controller type, application file, LON LinkNet channel, node count, and node address before installation; network-address availability differs among Woodward controller applications.
03	Set both rotary address switches to the address defined in the application program and cycle module power after an address change so the processor reads the new setting.
04	Do not assign the same address to two nodes and do not install the wrong LinkNet module type; Woodward documents address, type, and no-message faults for these conditions.
05	Use an 18 to 32 V DC supply and verify the 13.1 mA per active channel and 6.5 W module requirement against the field-contact and supply design.
06	The discrete inputs are not channel-to-channel isolated and their power comes directly from the module power input; confirm grounding, commoning, fusing, and hazardous-area wiring in the current Woodward diagram.

Identity and release controls

Verification Status	VERIFIED_EXACT_PART_NUMBER_AND_FUNCTION_FROM_WOODWARD_MANUAL_AND_PRODUCT_CHANGE_NOTICES
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Official Woodward sources

LON-based LinkNet Modules Final Production Stop Notification	https://www.woodward.com/products/wp-content/uploads/sites/3/2024/08/B06988_-.pdf
LINKnet Nodes and I/O Controller Module Obsolescence	https://www.woodward.com/products/wp-content/uploads/sites/3/2024/08/06923_A.pdf
723 Control/DSLC Compatible Product Manual	https://www.woodward.com/products/wp-content/uploads/sites/3/2024/08/02784_A.pdf