

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SPDSO14

SPDSO14 Open-Collector Output and Relay Integration Guide

ABB SPDSO14 Symphony Plus HR Series 16-Channel Digital Output Module

DOCUMENT SCOPE

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

Product / lookup identity	ABB SPDSO14
Reference number	SPDSO14
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/spdso14>
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Controller command, isolated output switch, NTDO02 or relay assembly, and discrete field load

ABB SPDSO14 is a Symphony Plus HR Series digital output module with up to 16 optically isolated open-collector outputs. The module supplies discrete commands to field circuits such as annunciation, permissive, interposing-relay, and on/off control circuits.

01	System Inputs: Discrete output commands from the Harmony Rack controller and module configuration.
02	Processing: Switches up to 16 optically isolated open-collector output channels according to controller commands.
03	Outputs: 24 VDC or 48 VDC discrete field commands within ABB's documented current ratings.
04	Communications: Harmony Rack I/O architecture; exact bus timing was not used as a product-level claim.
05	Boundary: SPDSO14 does not source an arbitrary AC load directly. Relay arrangements and field circuits must follow the exact ABB/project design.

Sixteen HR Series digital outputs with distinct 24 VDC and 48 VDC operating boundaries

01	Verification Status: VERIFIED_EXACT_MODEL_FUNCTION_AND_CORE_PARAMETERS
02	Exact Mapping: ABB describes SPDSO14 as an HR Series digital output module with up to 16 optically isolated open-collector outputs for 24 VDC or 48 VDC service.
03	Lifecycle Status: HOLD – ABB's 2017 material listed SPDSO14 in the active HR Series and ABB offered YSPDSO14 OEM repair in 2025, but no exact current formal SPDSO14 lifecycle phase was found



Voltage, current, polarity, commons, suppression, relay population, fail states, and feedback tests

01	Back up the controller database, output logic, fail states, and channel assignments before service.
02	Verify whether the field circuit is 24 VDC or 48 VDC and stay within the documented current rating.
03	Confirm open-collector polarity, commons, field supply, fusing, suppression, and load type from approved drawings.
04	Verify the exact termination unit, relay assembly, cable, dipshunt, slot, and address; family compatibility is not a wiring instruction.
05	Follow ABB and site isolation, ESD, insertion/removal, and commissioning procedures.
06	Test every used output, relay state, field feedback, alarm, fail state, and interlock before return to service.

Identity and release controls

Verification Status	VERIFIED_EXACT_MODEL_FUNCTION_AND_CORE_PARAMETERS
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Official ABB sources

ABB Symphony Plus Product Catalog Rev C	https://library.e.abb.com/public/81792a519145432a9e306fc0db47a36d/2VAA005340_C_en_SymphonyPlus_Product_catalog_1page%20view.pdf
ABB Harmony lifecycle and evolution presentation	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchorage%20Harmony.pdf
ABB Kickstart 2025 OEM repair promotion	https://library.e.abb.com/public/0dbf939ea74d4b07b739fe0d57c4d715/Kickstart%202025%204HZG000076%20Rev%20A.pdf