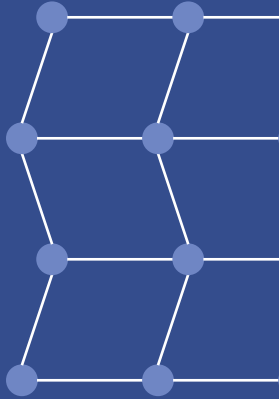


MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SPDSO14

Product Reference

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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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

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. System context: ABB SPDSO14 Symphony Plus HR Series 16-Channel Digital Output Module.

Published field	Manufacturer-published value or verified identity note
Outputs	Up to 16 open-collector digital outputs
Isolation	Optically isolated
24 VDC rating	250 mA
48 VDC rating	125 mA
+5 VDC supply	+/-5%, 275 mA typical
Relay options	NTDO02 solid-state relays or a relay assembly with electromechanical relays
NTDO02 capacity	Up to 8 solid-state relay outputs per NTDO02; each module output signal can drive up to 9 relays through NTDO02

System function and signal path

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.

Applications, answers, and official sources

1 Discrete actuator command: Operates compatible 24 VDC or 48 VDC on/off circuits within the documented current rating.

2 Interposing-relay control: Drives ABB-documented solid-state or electromechanical relay arrangements for galvanically separated field loads.

3 Alarm and annunciation: Provides controller-commanded discrete outputs to compatible indication and annunciation circuits.

4 IMDSO14 modernization: Supports an engineered move from IMDSO14 after wiring, polarity, termination, and logic verification.

Frequently asked questions

What is ABB SPDSO14?	It is an HR Series digital output module with up to 16 optically isolated open-collector outputs.
Which field voltages are documented?	24 VDC and 48 VDC.
What current rating is documented at 24 VDC?	250 mA.
What current rating is documented at 48 VDC?	125 mA.
Are the outputs optically isolated?	Yes.
Can SPDSO14 operate solid-state relays?	Yes. ABB documents use with NTDO02 solid-state relays.

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