

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB IMDSI22

Product Reference

ABB IMDSI22 Legacy 16-Channel Universal Digital Input Module

DOCUMENT SCOPE

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

Product / lookup identity	ABB IMDSI22
Reference number	IMDSI22
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/imdsi22>
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Product role and published parameters

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

ABB IMDSI22 is a legacy universal digital input module for Bailey INFI 90 and Harmony Rack installed-base systems. The module acquires discrete field states for controller logic, alarm, permissive, status, and sequence processing. System context: ABB IMDSI22 Legacy 16-Channel Universal Digital Input Module.

Published field	Manufacturer-published value or verified identity note
Function	Universal digital input module
Input points	16
DC input classes	24 VDC, 48 VDC, 125 VDC
AC input class	120 VAC
ABB HR replacement	SPDSI22
Evolution function-code reference	FC84 in ABB's Harmony evolution table
Current platform mapping	ABB DI06e catalog mapping includes DSI22; do not transfer DI06e specifications backward

System function and signal path

01	System Inputs: Sixteen field contact/status signals in the documented 24 VDC, 48 VDC, 125 VDC, or 120 VAC classes.
02	Processing: Converts field on/off conditions to controller-visible discrete states; exact thresholds and filtering remain HOLD.
03	Outputs: Digital status values to the installed controller over the rack I/O architecture.
04	Communications: Harmony Rack I/O architecture; no unsupported Ethernet or fieldbus role is assigned.

Applications, answers, and official sources

1 Equipment status monitoring: Reads run, stopped, ready, and fault contacts at a documented input voltage.

2 Alarm and trip acquisition: Brings discrete alarm or trip states into controller logic after project-specific safety review.

3 Permissive and interlock input: Acquires external permissives and interlocks used by approved sequence logic.

4 Legacy I/O modernization: Supports controlled evolution to SPDSI22 or the current DI06e platform after exact wiring and configuration review.

Frequently asked questions

What is ABB IMDSI22?	It is a 16-channel universal digital input module.
Which DC input classes are documented?	24 VDC, 48 VDC, and 125 VDC.
Which AC input class is documented?	120 VAC.
How many input points are documented?	Sixteen.
Which HR replacement does ABB name?	SPDSI22.
Does ABB map DSI22 to a current platform?	Yes. ABB's current catalog includes DSI22 in the DI06e one-to-one mapping list.

Official ABB sources

ABB Harmony Rack I/O Product Overview	https://library.e.abb.com/public/429d55ddf7c18f3ec1256c95006f67bc/WBPEEUS240011BI_-_en_Harmony_Rack_I_O_Product_Overview.pdf
ABB Harmony lifecycle and evolution presentation	https://library.e.abb.com/public/68e694fd1f5743ba949fbae1859ee3ac/02%20ABB%20Users%20Group%20Anchorage%20Harmony.pdf
ABB Ability Symphony Plus Product Catalog Rev G	https://library.e.abb.com/public/67f6b20f64d0443da36258e62a597791/2VAA005340%20en%20G%20Symphony%20Plus%20Product%20Catalog.pdf