

APTER POWER PRODUCT MANUAL

6ES7221-1BF32-0XB0

SIMATIC S7-1200 SM 1221 8-Channel Digital Input Module

The Siemens 6ES7221-1BF32-0XB0 is an S7-1200 SM 1221 digital input module with eight 24 V DC channels. It reads sink or source field contacts and sensors and transfers their on/off states to the S7-1200 user program.

The compact module adds discrete inputs for machine interlocks, limit switches, pushbuttons, proximity sensors, and equipment-status contacts.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Eight Reliable 24 V Inputs for the S7-1200 Signal Edge.

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SCAN FOR PRODUCT & QUOTE
6ES7221-1BF32-0XB0

1. Product Overview and Identity

The Siemens 6ES7221-1BF32-0XB0 is an S7-1200 SM 1221 digital input module with eight 24 V DC channels. It reads sink or source field contacts and sensors and transfers their on/off states to the S7-1200 user program.

The compact module adds discrete inputs for machine interlocks, limit switches, pushbuttons, proximity sensors, and equipment-status contacts.

Model Configuration

Field	Verified information
Complete model	6ES7221-1BF32-0XB0
Manufacturer	Siemens
Product description	SIMATIC S7-1200 SM 1221 8-Channel Digital Input Module

Key Features

- Exact 6ES7221-1BF32-0XB0 identity retained
- Manufacturer-source data separated from unconfirmed values
- SM 1221
- System context: SIMATIC S7-1200
- Model-specific lifecycle and installation guidance

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Module	SM 1221
Digital inputs	8
Input voltage	24 V DC
Wiring behavior	Sink/source
Input grouping	Groups of 2
IEC input type	IEC 61131 Type 1
Dimensions	45 x 100 x 75 mm
Net weight	Approx. 0.17 kg
Protection	IP20

Verification Note

Use the complete 6ES7221-1BF32-0XB0 identifier. Siemens lists the module as active at the time of review and publishes a planned phase-out date of 1 November 2026; reconfirm before ordering. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- The compact module adds discrete inputs for machine interlocks, limit switches, pushbuttons, proximity sensors, and equipment-status contacts.
- Maintains the documented SIMATIC S7-1200 system role for this exact article number.
- Provides an exact reference for engineering, maintenance, and quotation review.

Application Areas

Application	System role
Machine interlocks	Read guards, limits, and permissive contacts.
Sensor expansion	Add eight digital proximity or photoelectric signals.
Equipment status	Collect relay contacts and operating feedback.

Compatible Components

- SIMATIC S7-1200 CPU and expansion configuration supporting SM 1221
- 24 V DC sensors and contacts wired to the documented sink/source circuit
- TIA Portal hardware configuration matching the installed module

Lifecycle Status

Siemens lists the module as active at the time of review and publishes a planned phase-out date of 1 November 2026; reconfirm before ordering.

4. Installation Precautions

- Verify sink/source wiring and common references
- Observe the 24 V DC permissible range
- Update and back up the TIA Portal project
- Use the correct front connector
- Test input LEDs and PLC tags channel by channel

STOP - Verify before installation

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Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens Industry Mall technical data for 6ES7221-1BF32-0XB0.

Apter Power product page

<https://www.apterpower.com/Siemens/6ES7221-1BF32-0XB0>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.