SDI01

32-Point Digital Input Module

PUBLISHED IDENTITY

Toshiba SDI01 is a 32-point digital input module for Integrated Controller V series Model 3000 installations. Each input is specified for 24 V DC at 5 mA.

Technical snapshot

Product family	Integrated Controller V series Model 3000
Module function	Digital input acquisition
Input channels	32
Rated input	24 V DC at 5 mA
Channel insulation	Not insulated between channels
Online replacement	Supported
24 V current	50 mA
Field-signal class	Discrete DC input

Verified related ApterPower product pages

ProSoft PLX31-EIP-MBS

Honeywell FC-QPP-0002 V2.0

Engineering data

Official evidence organized for exact-model review

Product family	Integrated Controller V series Model 3000	**24 V current**	50 mA
Module function	Digital input acquisition	**Field-signal class**	Discrete DC input
Input channels	32	**Installed-position control**	Retain the recorded rack and slot assignment
Rated input	24 V DC at 5 mA	**Wiring control**	Preserve the 32-channel terminal map
Channel insulation	Not insulated between channels	**Status review**	Check RUN and alarm indications after installation
Online replacement	Supported	**Acceptance basis**	Verify every used input at the controller image

EVIDENCE BOUNDARY

Confirm the complete SDI01 marking, V series rack position, terminal unit and 32-channel wiring record before replacement.

Applications and system role

Four distinct documented operating contexts

DISCRETE FIELD-STATE COLLECTION

Acquires contact or transistor states from thirty-two documented 24 V DC input circuits.

LARGE CONTROLLER I/O RACKS

Adds a recorded digital-input section to an Integrated Controller V series Model 3000 station.

ONLINE MAINTENANCE PLANNING

Supports controlled module exchange where the engineered station permits online replacement.

INSTALLED-BASE RESTORATION

Reinstates the original input map after the exact slot, terminal unit and field conductors are reconciled.

Integration control

The module uses a shared input group and draws 50 mA from the 24 V supply under the published configuration. Before maintenance, retain the installed rack position, terminal-unit relationship and field-channel map. After the module is seated, verify the RUN and alarm indications and exercise every used input from its field contact to the controller program.

Verified related ApterPower product pages

ABB DI811 3BSE008552R1

ABB TU831V1 3BSE013235R1

Technical questions

Complete model-specific answers from the approved evidence set

What function does Toshiba SDI01 perform in the V series controller?

Toshiba SDI01 acquires discrete field states through a 32-channel digital input section in an Integrated Controller V series installation.

How many input points are available on Toshiba SDI01?

Toshiba SDI01 provides thirty-two digital input points.

Which electrical input level is specified for Toshiba SDI01?

The specified Toshiba SDI01 input level is 24 V DC at 5 mA per channel condition.

Are the channels on Toshiba SDI01 isolated from one another?

The Toshiba SDI01 channels are not individually isolated and operate as a common input group.

Can Toshiba SDI01 be exchanged while the station remains online?

The published Toshiba SDI01 module data identifies online replacement as supported within the approved controller procedure.

What 24 V current is listed for Toshiba SDI01?

Toshiba lists a 50 mA current value from the 24 V supply for SDI01.

Which records should be retained before Toshiba SDI01 is replaced?

Maintenance personnel should retain the Toshiba SDI01 slot, terminal-unit identity and complete 32-channel wiring map before removal.

How should a Toshiba SDI01 installation be accepted after service?

Acceptance should confirm normal module indications and prove every used Toshiba SDI01 input from its field contact through the controller image.

Product precautions

Eight aligned controls before return to service

1. Record the complete Toshiba SDI01 marking and installed slot.
2. Place the controller and affected field circuits in the approved maintenance state.
3. Identify all thirty-two channel assignments before moving any connector or terminal unit.
4. Confirm that the connected circuits use the documented 24 V DC input level.
5. Preserve the common-channel wiring and installed terminal-unit relationship.
6. Inspect connector seating, terminal tightness and field-supply polarity before return to service.
7. Review RUN and alarm indications after the module is recognized by the station.
8. Exercise every used input and record the controller-image acceptance results.

Verified related ApterPower product pages

- ABB DSBC174 3BSE012211R1
- ABB SR511 3BSE000863R1
- ABB 07DI92
- ABB 07KT92 GJR5250500R0902

Evidence and support

Manufacturer references, related products and direct contact

Manufacturer evidence used

- Toshiba Integrated Controller V series Model 3000 serial I/O module specifications, SDI01 digital-input entry.
- Toshiba Model 3000 product list, SDI01 32-point 24 V DC input listing.
- Toshiba V series digital-input module operating and replacement characteristics.

Verified related ApterPower product pages

ABB 07KR91 GJR5250000R0101

ABB 07KP90 GJR5251000R0202

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Allen-Bradley 1762-L40BWA

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