

PRODUCT INFORMATION DASHBOARD

Schneider Electric 140DSI35300

Discrete Input Module

Schneider Electric 140DSI35300 is a Modicon Quantum 24 V DC supervised discrete input module with 32 positive-logic inputs arranged as four groups of eight. Its supervision circuit is designed to identify a broken field connection through dedicated status registers when the monitored current falls below the documented threshold.

PRODUCT ROLE

Thirty-two 24 V DC supervised inputs

SYSTEM

Modicon Quantum

INTERFACE

Four groups of eight positive-logic channels

SERVICE FOCUS

Quantum rack I/O integration

Exact-model highlights

- Thirty-two 24 V DC supervised inputs
- Four groups of eight positive-logic channels
- Broken-field-wire supervision
- Quantum rack I/O integration

Release questions

IDENTITY

Is the complete 140DSI35300 code confirmed?

INTERFACE

Do field signals and companion equipment match?

SETTINGS

Are installed parameters and mappings preserved?

ACCEPTANCE

Have normal, fault and recovery states been tested?

Technical data

Product family	Modicon Quantum
Module function	Supervised discrete input
Input voltage	24 V DC
Input count	32
Channel grouping	Four groups of eight inputs
Input logic	Positive logic
I/O addressing	Two input words
Supervision method	Shunt resistor across the switching device
Continuity current	>=0.15 mA, switch open
Broken-wire reporting	Broken Wire registers 3 and 4
Rack interface	Quantum local or remote I/O rack
Status handling	Separate input-state and supervision diagnostics

Application safeguards

SAFEGUARD 1

Isolate rack and field power before removing the terminal assembly or module.

SAFEGUARD 2

Confirm the exact 140DSI35300 code; standard 140DDI variants do not provide the same supervised behavior.

SAFEGUARD 3

Wire four groups of eight using the documented positive-logic polarity and group commons.

SAFEGUARD 4

Install the approved supervision resistor arrangement across each field switching device.

Common applications

Supervised contact monitoring

Monitors field contacts while retaining a small continuity current through the supervision resistor.

Critical discrete status collection

Brings 32 grouped 24 V DC status points into a Quantum controller with field-wire diagnostics.

Legacy Quantum maintenance

Supports exact-module replacement in existing racks without changing controller I/O mapping.

Broken-wire troubleshooting

Separates field continuity faults from normal switch-open states through the mapped diagnostic registers.

Interface checklist

- Thirty-two field input circuits are divided into four groups of eight.
- Each supervised point uses a shunt-resistor path across the field switch.
- A small open-switch current confirms field wiring continuity.
- Input states map into two input words for controller logic.
- Broken-wire information is mapped separately in registers 3 and 4.
- The rack backplane supplies the module-system interface.
- Group commons and field supply polarity must follow the positive-logic wiring diagram.
- The module belongs to the Modicon Quantum I/O architecture.

Installation snapshot

STEP 1

Place the process in a safe state and isolate rack and field power.

STEP 2

Label the terminal assembly and every grouped conductor.

STEP 3

Remove the existing module without disturbing unrelated rack positions.

STEP 4

Seat 140DSI35300 in the recorded slot and secure it.

Model-specific FAQ

Q1 What is Schneider Electric 140DSI35300?

It is a Modicon Quantum 24 V DC supervised discrete input module with 32 positive-logic inputs.

Q2 How are the inputs grouped on Schneider Electric 140DSI35300?

The 32 channels are arranged as four groups of eight inputs.

Q3 How does Schneider Electric 140DSI35300 supervise field wiring?

A shunt resistor across the switching device maintains a small current when the switch is open, allowing the module to distinguish continuity from an interrupted field circuit.

Q4 What current is required for Schneider Electric 140DSI35300 open-circuit supervision?

The continuity threshold is at least 0.15 mA with the field switch open.

Q5 Where are broken-wire states reported by Schneider Electric 140DSI35300?

They are mapped in Broken Wire registers 3 and 4, separate from the normal input words.

Q6 How many input words does Schneider Electric 140DSI35300 use?

It uses two input words.

Q7 Can Schneider Electric 140DSI35300 be replaced by a standard 140DDI module without review?

No. The supervised-field function and diagnostic mapping must be preserved, so the exact module and application logic must be checked.

Q8 Which acceptance test should be run on Schneider Electric 140DSI35300?

Test each representative channel in ON, OFF and broken-wire conditions and confirm both the process input and the appropriate diagnostic register.

Product precautions

- 1

Isolate rack and field power before removing the terminal assembly or module.
- 2

Confirm the exact 140DSI35300 code; standard 140DDI variants do not provide the same supervised behavior.
- 3

Wire four groups of eight using the documented positive-logic polarity and group commons.
- 4

Install the approved supervision resistor arrangement across each field switching device.
- 5

Maintain at least the documented 0.15 mA continuity current for a valid open-switch circuit.
- 6

Do not treat Broken Wire registers 3 and 4 as normal process input words.
- 7

Verify rack addressing before changing controller logic or forcing points.
- 8

Test normal ON, normal OFF and simulated broken-wire states before returning the loop to service.

Related products

Verified related products on ApterPower

- Schneider Electric 140DDI35310**

Modicon Quantum discrete input module

[View Schneider Electric 140DDI35310](#)
- Schneider Electric 140CRA21220**

Modicon Quantum remote I/O adapter

[View Schneider Electric 140CRA21220](#)
- Schneider Electric 140CRP93200**

Modicon Quantum remote I/O head

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Share the exact 140DSI35300 nameplate, application and required quantity for a model-specific quotation.