Siemens 6ES7132-4BD02-0AA0

01 Function and selected configuration

Product function

Siemens 6ES7132-4BD02-0AA0 switches solenoid valves, DC contactors and indicator lights through an ET 200S terminal module. Load type, switching rate and terminal allocation determine how its four channels are applied.

Selected configuration

Four-channel ST electronic module for 24 VDC / 0.5 A output circuits. Four electronic outputs switch the load supply delivered through the station power module. The channels are isolated from the backplane bus but not from one another. Short-circuit protection operates per channel; it does not make output paralleling suitable for increasing load capacity.

Functional path

ET 200S bus	Output process image	Electronic switches	24 VDC field loads

Load circuit	24 VDC from the ET 200S power module
Output loading	0.5 A per channel; 2 A per module
Process image	1 byte normally, or 4 bits with packed addressing

The maximum switching rate depends on the actuator: 800 Hz for resistive loads, 2 Hz for inductive loads and 10 Hz for lamps. Lamp load is limited to 5 W. For resistive loads, turn-on delay is at most 50 microseconds and turn-off delay at most 120 microseconds, so the two transitions have different timing limits.

6ES7132-4BD02-0AA0 / Technical operating envelope

02 Technical operating envelope

Output channels	4
Rated load voltage	24 VDC
Rated channel current	0.5 A
Total module current	2 A
Output-on voltage	At least L+ minus 1 V
Turn-on / turn-off delay	50 / 120 microseconds maximum, resistive load
Maximum switching rate	800 Hz resistive; 2 Hz inductive; 10 Hz lamp
Lamp load	5 W maximum
Process-image space	1 byte; 4 bits when packed
Typical power dissipation	0.8 W

The 0.5 A per-channel and 2 A total limits apply together. A 5 W lamp rating and load-dependent switching frequencies also apply. Two outputs may provide redundant triggering within one module, but may not be paralleled to increase capacity.

Electrical separation

Channels share their load-side potential. Isolation from the backplane is not isolation between individual output circuits.

Status interpretation

A green channel LED indicates the output state. Verify voltage and actuator response separately because channel diagnostics are not provided.

6ES7132-4BD02-0AA0 / System integration and applications

03 System integration and applications

Solenoid valve switching

Operate a compatible DC solenoid while observing the 2 Hz inductive-load limit and the output current budget.

DC contactor command

Drive a suitable DC contactor coil and verify its current, release behavior and external circuit arrangement.

Indicator lights

Switch panel indication with a maximum 5 W lamp load and a 10 Hz lamp switching limit.

Digital signal transfer

Drive a compatible digital input while accounting for switching delays and the possible 50-microsecond startup pulse.

System and supply context

The electronic module operates within a compatible ET 200S station, using a separate terminal module and power-module load supply. The offer must identify the electronic-module quantity and any separately included station hardware.

Application boundary

These examples concern low-power 24 VDC switching. Apply the load-specific current and frequency limits rather than treating all actuators as equivalent.

Can two outputs of Siemens 6ES7132-4BD02-0AA0 be paralleled for a larger load?

No. Parallel connection is permitted for redundant triggering within a module, not for increasing output capacity. Keep the 0.5 A channel and 2 A module ratings.

6ES7132-4BD02-0AA0 / Engineering selection decisions

04 Engineering selection decisions

Which terminals carry the four outputs of Siemens 6ES7132-4BD02-0AA0?

Channel 0 uses terminal 1, channel 1 terminal 5, channel 2 terminal 2 and channel 3 terminal 6. Common and AUX terminals depend on the selected terminal module.

How does actuator type change the switching frequency of Siemens 6ES7132-4BD02-0AA0?

The limits are 800 Hz for resistive loads, 2 Hz for inductive loads and 10 Hz for lamps. Lamp load must also remain at or below 5 W.

How much output address space does Siemens 6ES7132-4BD02-0AA0 need?

The normal address space is one byte. Packed addressing uses four bits for the four outputs; the station configuration must support the selected arrangement.

What transition delays apply to Siemens 6ES7132-4BD02-0AA0 with resistive loads?

The maximum delay is 50 microseconds from off to on and 120 microseconds from on to off. These output delays do not include controller execution or network update time.

Consider the power-on pulse	Assess fast counters and other pulse-sensitive receivers before switching L+ through mechanical contacts.
Use appropriate load timing	Apply the resistive, inductive or lamp switching limit appropriate to the actual actuator.

6ES7132-4BD02-0AA0 / Configuration boundary and references

05 Configuration boundary and references

Lifecycle and support

Product cancellation phase; supplied as a spare-part reference for installed ET 200S equipment.

Replacement assessment

Retain the terminal-module assignment, output polarity and configured process-image packing. A different module generation requires a system-level compatibility assessment.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains configuration and selection boundaries. The independent installation guide organizes preparation, connection, testing and handover. It does not replace the applicable manufacturer installation instructions.

Technical basis

Siemens ET 200S 4DO DC24V/0.5A ST Manual, A5E01254028-01, 01/2008.

Related product navigation

- Siemens 6ES7131-4BD01-0AA0
- Siemens 6ES7131-4BF00-0AA0
- Siemens 6ES7193-4JA00-0AA0

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries