

SIEMENS

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SIMATIC

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**ET 200S distributed I/O system
4DO DC24V/2A ST digital electronic module
(6ES7132-4BD32-0AA0)**

Manual

10/2015
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Properties

2.1 4DO DC24V/2A ST digital electronic module (6ES7132-4BD32-0AA0)

Properties

- Digital electronic module with four outputs
- Output current per output 2 A
- Rated load voltage 24 V DC
- Short-circuit protection
- Suitable for solenoid valves, DC contactors, and indicator lights

Special feature

When the rated load voltage 24 V DC is applied to the power module via a mechanical contact, the digital outputs carry a "1" signal for about 25 µs for switching reasons. You have to take this into consideration if you use this module in connection with high-speed counters.

General terminal assignment

Note

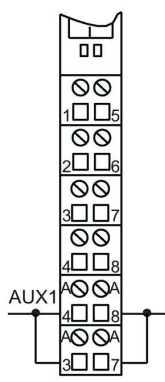
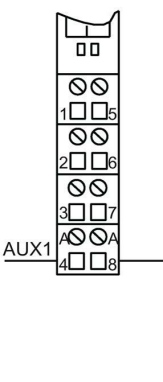
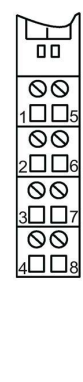
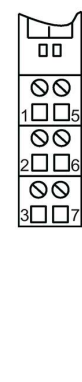
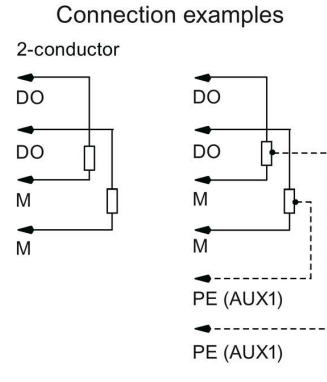
Terminals 4, 8, A4, A8, A3 and A7 are only available at specified terminal modules.

Terminal assignment for 4DO DC24V/2A ST (6ES7132-4BD32-0AA0)				
Terminal	Allocation	Terminal	Allocation	Notes
1	DO ₀	5	DO ₁	• DO_n: Output signal, channel n • M: Mass • AUX1: Protective-conductor terminal or potential bus (freely usable up to 230 VAC)
2	DO ₂	6	DO ₃	
3	M	7	M	
4	M	8	M	
A4	AUX1	A8	AUX1	
A3	AUX1	A7	AUX1	

Properties

2.1 4DO DC24V/2A ST digital electronic module (6ES7132-4BD32-0AA0)

Usable terminal modules

Usable terminal modules for 4DO DC24V/2A ST (6ES7132-4BD32-0AA0)				
TM-E15C26-A1 (6ES7193-4CA50-0AA0)	TM-E15C24-A1 (6ES7193-4CA30-0AA0)	TM-E15C24-01 (6ES7193-4CB30-0AA0)	TM-E15C23-01 (6ES7193-4CB10-0AA0)	← Spring terminal
TM-E15S26-A1 (6ES7193-4CA40-0AA0)	TM-E15S24-A1 (6ES7193-4CA20-0AA0)	TM-E15S24-01 (6ES7193-4CB20-0AA0)	TM-E15S23-01 (6ES7193-4CB00-0AA0)	← Screw-type terminal
TM-E15N26-A1 (6ES7193-4CA80-0AA0)	TM-E15N24-A1 (6ES7193-4CA70-0AA0)	TM-E15N24-01 (6ES7193-4CB70-0AA0)	TM-E15N23-01 (6ES7193-4CB60-0AA0)	← Fast Connect
    Connection examples 				

Properties

2.1 4DO DC24V/2A ST digital electronic module (6ES7132-4BD32-0AA0)

Block diagram

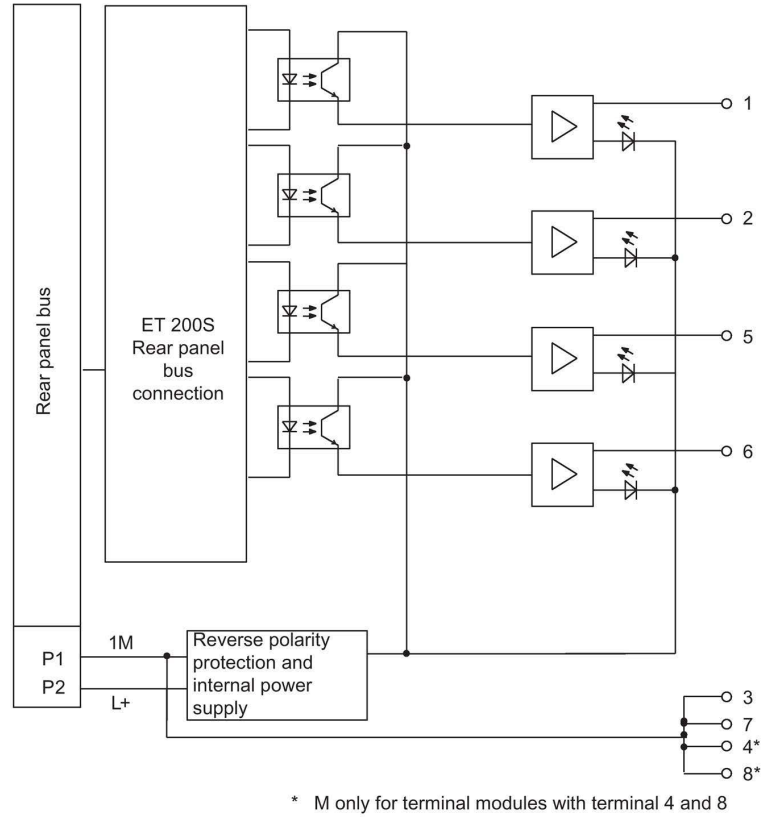


Figure 2-1 Block diagram 4DO DC24V/2A ST

Properties

2.1 4DO DC24V/2A ST digital electronic module (6ES7132-4BD32-0AA0)

Technical specifications for 4DO DC24V/2A ST (6ES7132-4BD32-0AA0)

Dimensions and weight	
Dimensions W × H × D (mm) (Total dimensions depend on the terminal module selected)	15 × 81 × 52
Weight	Approx. 40 g
Module-specific data	
Supports isochronous operation	Yes
Number of outputs	4
Cable length	
• Unshielded	Max. 600 m
• Shielded	Max. 1000 m
Parameter length	1 byte
Address space	1 byte
Address space (packed)	4 bits
Voltages, currents, potentials	
Rated load voltage L+ (from power module)	24 V DC
• Polarity reversal	Yes ¹
Total current of the outputs (per module)	4 A
Electrical isolation	
• Between the channels	No
• Between the channels and backplane bus	Yes
Permissible potential difference	
• Between different circuits	75 V DC / 60 V AC
Isolation tested	500 V DC
Current consumption	
• From the rated load voltage L+ (no load)	Max. 10 mA per channel
Power loss of the module	Typically 1.6 W
Status, interrupts, diagnostics	
Status display	Green LED per channel
Diagnostics functions	No
Actuator selection data	
Output voltage	
• At signal "1"	Min. L+ (-1 V)
Output current	
• At signal "1"	
– Rated value	2 A
– Permissible range	7 mA to 2.4 A
• At "0" signal (residual current)	Max. 0.1 mA

Properties

2.1 4DO DC24V/2A ST digital electronic module (6ES7132-4BD32-0AA0)

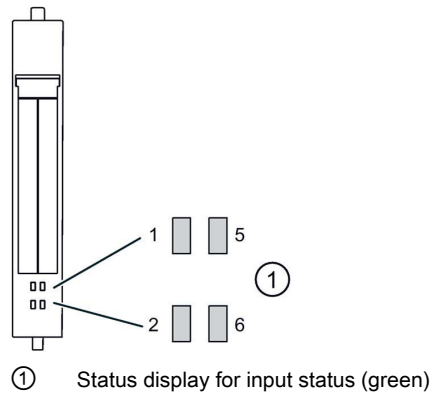
Output delay (with resistive load)	
• At "0" to "1"	Max. 50 μ s typically 45 μ s
• At "1" to "0"	Max. 120 μ s typically 90 μ s
Load resistance range	12 Ω to 3.4 k Ω
Lamp load	Max. 10 W
Parallel switching of 2 outputs	
• For redundant control of a load	Yes (per module)
• For increased performance	No
Control of a digital input	Yes
Switching frequency	
• With resistive load	Max. 1 kHz
• With inductive load	2 Hz (0.5 H)
• With lamp load	10 Hz
Limiting (internal) of inductive shut-down voltage	Typ. L+ (-55 to -60 V)
Reverse-voltage proof	Yes, if using the same load voltage as at the power module
Short-circuit protection of the output	Yes ²
• Response threshold	Typically 2.8 to 7.2 A
¹ Polarity reversal can lead to the digital outputs being switched through.	
² per channel	

3

Diagnostics

3.1 Diagnostics using LED display

LED display



Status and error displays

Event (LEDs)				Cause	Solution
1	5	2	6		
On				Input value at channel 0	—
	On			Input activated at channel 1.	—
		On		Input activated at channel 2.	—
			On	Input activated at channel 3.	—



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PRODUCT: 6ES7132-4BD32-0AA0 / SIMATIC ET 200S 4DO 24 V DC / 2 A Standard Module

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