

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6ES7132-4BB30-0AB0

SIMATIC ET 200S 2DO HIGH FEATURE OUTPUT MODULE

Used with the applicable SIMATIC ET 200S configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens manufacturer documentation for 6ES7132-4BB30-0AB0

11.16 2DO 24 VDC/2 A High Feature digital electronic module
(6ES7 132-4BB30-0AB0)

Order number

6ES7 132-4BB30-0AB0

Properties

- Digital electronic module with two outputs
- Output current 2 A per output
- 24 VDC rated load voltage
- Suitable for solenoids, DC current protection and warning lights
- Supports clock synchronized mode

Special feature

When the rated load voltage of 24 VDC is connected at the power module via a mechanical contact, the digital outputs carry a "1" signal for approx. 50 µs because of the circuit type. This must be considered when the module is connected to fast counters.

Connection assignment

The following table shows the terminal assignment of the 2DO 24 VDC/2 A High Feature for the various terminal modules:

Table 11-24 Terminal assignment of the 2DO 24 VDC/2 A High Feature

View	Terminal assignment	Remarks
TM-E15S24-A1 and 2DO 24 VDC/2 A High Feature		Channel 0: Terminals 1 to A4
		Channel 1: Terminals 5 to A8
CH0 DO₀ VDC M AUX1 (e.g. PE)	CH1 DO₁ VDC M AUX1 (e.g. PE)	2-wire 3-wire 4-wire
		DO: Output signal (max. 2 A per channel)
		24 VDC: Sensor supply
		M : Load power supply ground
		AUX1 must be occupied with 4 wires at PE.

Table 11-24 Terminal assignment of the 2DO 24 VDC/2 A High Feature, continued

View	Terminal assignment	Remarks
TM-E15S24-01 and 2DO 24 VDC/2 A High Feature		Channel 0: Terminals 1 to 4 Channel 1: Terminals 5 to 8
CH0 DO₀ VDC M n. c. 1 5 2 6 3 7 4 8 CH1 DO₁ VDC M n. c. 2-wire 3-wire	DO: Output signal (max. 2 A per channel) 24 VDC: Sensor supply M : Load power supply ground Terminals 4 and 8 can be used for connection of cables that are not required u to 30 VDC.	
TM-E15S23-01 and 2DO 24 VDC/2 A High Feature		Channel 0: Terminals 1 to 3 Channel 1: Terminals 5 to 7
CH0 DO₀ VDC M 1 5 2 6 3 7 CH1 DO₁ VDC M 2-wire 3-wire	DO: Output signal (max. 2 A per channel) 24 VDC: Sensor supply M : Load power supply ground	
TM-E15S26-A1 and 2DO 24 VDC/2 A High Feature		Channel 0: Terminals 1 to A3 Channel 1: Terminals 5 to A7
CH0 DO₀ VDC M n. c. AUX1 AUX1 1 5 2 6 3 7 4 8 A A A A CH1 DO₁ VDC M n. c. AUX1 AUX1 2-wire 3-wire	DO: Output signal (max. 2 A per channel) 24 VDC: Sensor supply M : Load power supply ground Terminals 4 and 8 can be used for connection of cables that are not required u to 30 VDC.	

Block diagram

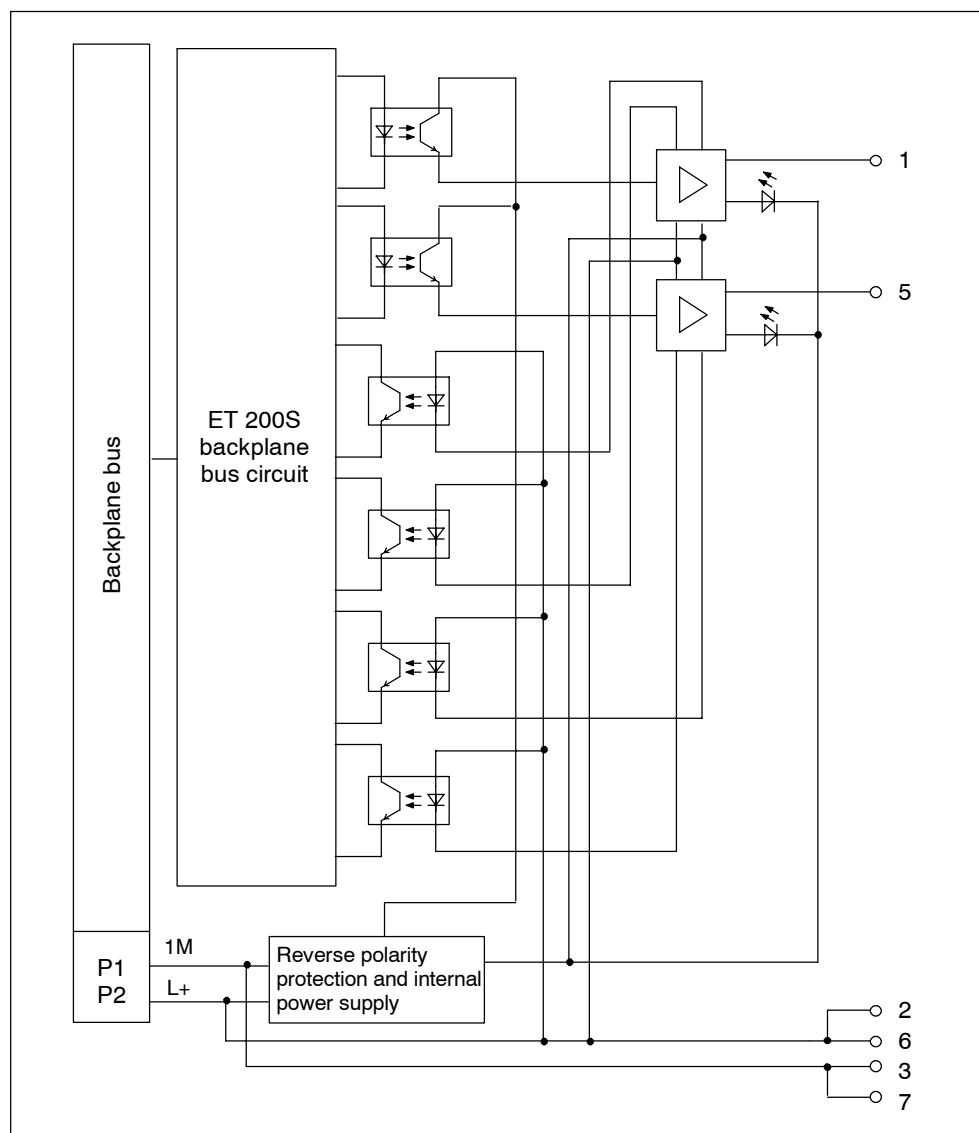


Figure 11-18 Block diagram of the 2DO 24 VDC/2 A High Feature

Technical data

Dimensions and weight		Data for selection of an actuator	
Dimensions		Output voltage	
W x H x D (mm)	15 x 81 x 52	For signal "1" min. L+ (-1 V)	
Weight	Approx. 40 g	Output current	
Module-specific data		- For signal "1" - Rated value 2A - Permitted range 7 mA to 2.4 A - For signal "0" (residual current) max. 0.5 mA	
Supports clock synchronized mode	Yes	Output delay (with ohmic load)	
Number of outputs	2	"0" to "1" transition max. 100µs "1" to "0" transition max. 400µs	
Cable length		Load resistor range 12 Ω up to 3.4 kΩ	
- Unshielded max. 600 m (164 ft) - shielded max. 1,000 m (164 ft)		Lamp load max. 5 W	
Voltages, currents, electrical potentials		Connecting 2 outputs in parallel	
Rated load voltage L+ (from power module)	24 VDC	- For redundant triggering of a load Yes (per module) - To increase performance No	
Polarity reversal Yes¹		Actuation of a digital input Yes	
Total current of outputs (per module)	4 A	Switching frequency	
Electrical isolation		- with ohmic load 100 Hz - with inductive load 2 Hz (0.5 H) - With lamp load 10 Hz	
- Between the channels No - Between channels and backplane bus Yes		Limitation (internal) of the inductive disconnection voltage Typically L+ (-55 to -60 V)	
Permissible potential difference		Reverse voltage protection Yes, when using the same load voltage as at the power module	
Between different circuits 75 VDC / 60 VAC		Short-circuit protection of the output Yes ²	
Isolation tested	500 VDC	Response threshold Typical 4 A	
Current consumption			
From rated load voltage L+ (without load) max. 5 mA per channel			
Power loss of the module	Typical 1.4 W		
Status, interrupts, diagnostics			
Status display	Green LED pro Channel		
Diagnostic functions			
- Group error red LED "SF" - Reading of diagnostics functions Yes			

¹ Polarity reversal can cause interconnection of the digital outputs

² Per channel