# 12.14 2DO 24 VDC/2 A Standard digital electronic module (6ES7132-4BB30-0AA0)

## Order number

6ES7132-4BB30-0AA0

#### **Features**

- Digital electronic module with two outputs
- Output current 2 A per output
- Rated load voltage 24 VDC
- Suitable for solenoid valves, DC contactors, and indicator lights

### **Peculiarity**

When you connect the 24 VDC rated load voltage to the power module by means of a mechanical contact, depending on the circuit the digital outputs carry the "1" signal for approximately 50  $\mu$ s. You need to take this into account if you connect the module to fast counters.

#### **Terminal assignment**

The following table indicates the terminal assignment of the 2DO 24 VDC, 2 A Standard for the different terminal modules:

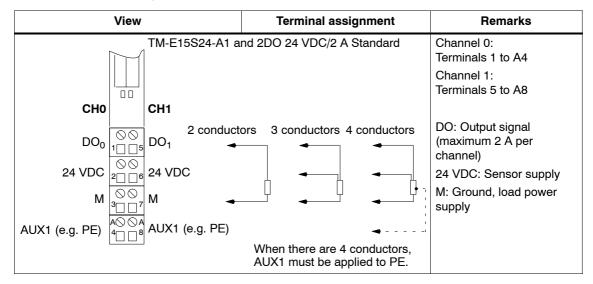


Table 12-22 Terminal assignment of the 2DO 24 VDC/2 A Standard

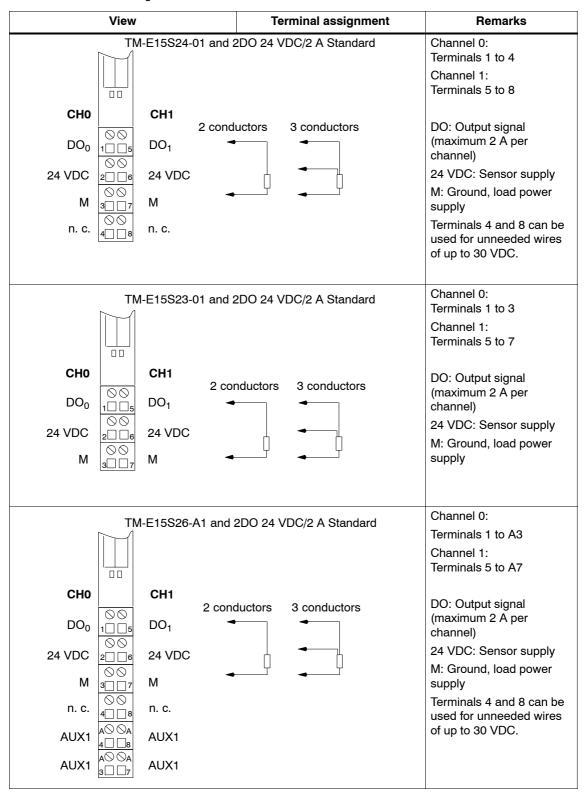


Table 12-22 Terminal assignment of the 2DO 24 VDC/2 A Standard, continued

# **Block diagram**

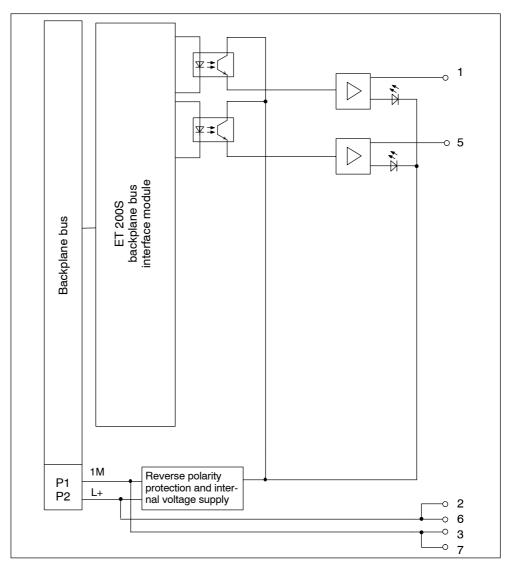


Figure 12-16 Block diagram of the 2DO 24 VDC/2 A Standard

# **Technical specifications**

Dimensions and weight		Data for selecting an actuator	
Dimensions		Output voltage	
$W \times H \times D$ (mm)	15×81×52	At signal "1"	Min. L+ (-1 V)
Weight	Approx. 40 g	Output current	
Data for specific modules		• At signal "1"	
Supports clocked operation	No	<ul> <li>Rated value</li> </ul>	2 A
Number of outputs	2	<ul> <li>Permitted range</li> </ul>	7 mA to 2.4 A
Length of cable		• With signal "0" (leakage	Max. 0.5 mA
Unshielded	Max. 600 m	current)	
Shielded	Max. 1000 m	Output delay (for resistive	
Voltages, currents	s, potentials	• At "0" to "1"	Max. 200 μs
Rated load voltage L+ (from the power module)	24 VDC	• At "1" to "0"	Max. 1.3 ms
<ul> <li>Polarity reversal</li> </ul>	Yes <sup>1)</sup>	Load resistor range	12 $\Omega$ to 3.4 k $\Omega$
Total current of the outputs	4 A	Lamp load	Max. 10 W
(per module)		Connecting two outputs in	
Isolation		parallel	
Between the channels	No	For redundant triggering     of a load	Yes (per module)
<ul> <li>Between the channels and backplane bus</li> </ul>	Yes	To increase     performance	No
Permissible potential diffe- rence		Control of a digital input	Yes
Between the different	75 VDC, 60 VAC	Switch rate	
circuits		For resistive load	100 Hz
Insulation tested	500 VDC	With inductive load	2 Hz (0.5 H)
Current consumption		For lamp load	10 Hz
<ul> <li>From rated load voltage L+ (no load)</li> </ul>	Max. 5 mA per channel	Limitation (internal) of the voltage induced on circuit	Typ. L+ (–55 to –60 V)
Power dissipation of the module	Typ. 1.4 W	interruption Reverse-voltage proof	Yes, if using the
Status, interrupts, diagnostics			same load voltage
Status display	Green LED per	4	as at the power mo- dule
	channel	Short-circuit protection of	Yes <sup>2)</sup>
Diagnostic functions	No	the output	
		Threshold on	Typ. 2.8 to 7.2 A

 Polarity reversal can lead to the digital outputs being connected through

<sup>2)</sup> Per channel