

Technical specifications (continued)

Article number	6ES7132-4BF50-0AA0 ET200S, 8DO SINK OUTPUT DC24V/0,5A	6ES7132-4BD50-0AA0 ET200S, 4DO SINK OUTPUT DC24V/0,5A, 5PCS	6ES7132-4HB50-0AB0 ET200S, 2RO, DC48V/AC230V, MANUAL ACTUATION
Product type designation			
Supply voltage			
Reverse voltage protection	Yes; when using the same correctly polarized load voltage as on the power module	Yes; when using the same load voltage as on the power module	
Load voltage L+			
• Rated value (DC)	24 V; From power module	24 V; From power module	24 V; From power module
• Reverse polarity protection	Yes	Yes	Yes
Input current			
from load voltage L+ (without load), max.	5 mA	5 mA; Per channel	30 mA
from backplane bus 3.3 V DC, max.	10 mA	10 mA	10 mA
Power losses			
Power loss, typ.	1.5 W	0.8 W	0.6 W
Address area			
Address space per module			
• with packing		4 bit	2 bit
• without packing	1 byte	1 byte	1 byte
Digital outputs			
Number of digital outputs	8	4	2
short-circuit protection	Yes	Yes	No
• Response threshold, typ.	1,5 A		
Limitation of inductive shutdown voltage to	Typ. 47 V		No
Controlling a digital input	Yes	Yes	Yes
Switching capacity of the outputs			
• on lamp load, max.	5 W	5 W	
Load resistance range			
• lower limit	48 Ω	48 Ω	
• upper limit	3 400 Ω	3 400 Ω	
Output voltage			
• for signal "1", min.	Max. 1 V	1 V	
Output current			
• for signal "1" rated value	0.5 A	0.5 A	5 A
• for signal "1" permissible range for 0 to 60 °C, min.	5 mA	5 mA	
• for signal "1" permissible range for 0 to 60 °C, max.	700 mA	700 mA	
• for signal "1" minimum load current			8 mA
• for signal "0" residual current, max.	5 µA	5 µA	
Output delay with resistive load			
• "0" to "1", max.	300 µs	300 µs	
• "1" to "0", max.	600 µs	600 µs	
Parallel switching of 2 outputs			
• for increased power	No	No	
• for redundant control of a load	Yes; per module	Yes; per module	
Switching frequency			
• with resistive load, max.	100 Hz	100 Hz	2 Hz
• with inductive load, max.	0.5 Hz	0.5 Hz	0.5 Hz
• on lamp load, max.	10 Hz	10 Hz	2 Hz
Aggregate current of outputs (per group)			
all mounting positions			
- up to 60 °C, max.	4 A	2 A	
Relay outputs			
Switching capacity of contacts			
- Thermal continuous current, max.			5 A
Cable length			
• shielded, max.	1 000 m	1 000 m	1 000 m
• Unshielded, max.	600 m	600 m	600 m

I/O systems

ET 200 systems for the control cabinet

ET 200S - I/O modules

Digital electronic modules

Technical specifications (continued)

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Isochronous mode			
Isochronous operation (application synchronized up to terminal)	Yes	Yes	No
Interrupts/diagnostics/ status information			
Substitute values connectable			Yes; 0/1
Diagnostic messages			
• Diagnostic functions	No	No	No
Diagnostics indication LED			
• Status indicator digital output (green)	Yes	Yes	Yes
Parameter			
Remark	3 byte	1 byte	
Behavior on CPU/Master STOP, channel-wise			Substitute a value/keep last value
Galvanic isolation			
Galvanic isolation digital outputs			
• between the channels	No	No	Yes
• between the channels and the backplane bus	Yes	Yes	Yes
• between the channels and the load voltage L+			Yes
Isolation			
Isolation checked with	500 V DC	500 V DC	
tested with			
• Channels against backplane bus and load voltage L+			1500 V AC
• Load voltage L+ against backplane bus			500 V DC
Extended ambient conditions			
• Relative to ambient temperature-atmospheric pressure-installation altitude			Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)
Dimensions			
Width	15 mm	15 mm	15 mm
Height	81 mm	81 mm	81 mm
Depth	52 mm	52 mm	52 mm
Weights			
Weight, approx.	40 g	40 g	50 g

Ordering data	Article No.	Article No.
Digital input modules		
Ordering unit 5 items		
• 2 DI 24 V DC Standard	6ES7131-4BB01-0AA0	
• 2 DI 24 V DC High Feature	6ES7131-4BB01-0AB0	
• 4 DI 24 V DC Standard	6ES7131-4BD01-0AA0	
• 4 DI 24 V DC High Feature	6ES7131-4BD01-0AB0	
• 2 DI 120 V AC	6ES7131-4EB00-0AB0	
• 2 DI 230 V AC	6ES7131-4FB00-0AB0	
• 4 DI 24 to 48 V UC	6ES7131-4CD02-0AB0	
• 4 DI 24 V DC SOURCE INPUT	6ES7131-4BD51-0AA0	
Ordering unit 1 item		
• 4 DI 24 V DC NAMUR	6ES7131-4RD02-0AB0	
• 8 DI 24 V DC Standard	6ES7131-4BF00-0AA0	
• 8 DI, 24 V DC, Standard SOURCE INPUT	6ES7131-4BF50-0AA0	
Ordering unit 100 items		
• 8 DI 24 V DC Standard	6ES7131-4BF00-4AA0	
Digital output modules		
Ordering unit 5 items		
• 2 DO 24 V DC/0.5 A Standard	6ES7132-4BB01-0AA0	
• 2 DO 24 V DC/0.5 A High Feature	6ES7132-4BB01-0AB0	
• 2 DO 24 V DC/2 A Standard	6ES7132-4BB31-0AA0	
• 2 DO 24 V DC/2 A High Feature	6ES7132-4BB31-0AB0	
• 4 DO 24 V DC/0.5 A Standard	6ES7132-4BD02-0AA0	
• 4 DO, 24 V DC/0.5 A, Standard SOURCE OUTPUT	6ES7132-4BD50-0AA0	
• 4 DO 24 V DC/0.5 A High Feature	6ES7132-4BD00-0AB0	
• 8 DO 24 V DC/0.5 A High Feature	6ES7132-4BF00-0AB0	
• 4 DO 24 V DC/2 A Standard	6ES7132-4BD32-0AA0	
• 4 DO 24 V DC/2 A High Feature	6ES7132-4BD30-0AB0	
• 2 DO 24 to 230 V AC/2 A	6ES7132-4FB01-0AB0	
• 2 DO 24 V DC to 230 V AC/5 A relay, NO contact	6ES7132-4HB01-0AB0	
• 2 DO 24...48 V DC/5 A, 24...230 V AC/5 A relay, changeover contact	6ES7132-4HB12-0AB0	
Ordering unit 1 item		
• 2 DO 24...48 V DC/5 A, 24...230 V AC/5 A relay, changeover contact, with manual operation	6ES7132-4HB50-0AB0	
• 8 DO 24 V DC/0.5 A Standard	6ES7132-4BF00-0AA0	
• 8 DO, 24 V DC/0.5 A, Standard SINK OUTPUT	6ES7132-4BF50-0AA0	
Ordering unit 100 items		
• 8 DO 24 V DC/0.5 A Standard	6ES7132-4BF00-4AA0	
Accessories		
Label sheets DIN A4 (10 pieces)		
Each sheet contains 60 labeling strips for I/O modules and 20 labeling strips for interface modules		
• petrol	6ES7193-4BH00-0AA0	
• red	6ES7193-4BD00-0AA0	
• yellow	6ES7193-4BB00-0AA0	
• light beige	6ES7193-4BA00-0AA0	