

Overview

- Digital outputs as a supplement to the integral I/O of SIMATIC S7-1200 CPUs
- Can be plugged directly into the CPU

Technical specifications

Article number	6ES7222-1AD30-0XB0	6ES7222-1BD30-0XB0
	SIGNAL BOARD SB1222, 4 DQ 5VDC 200KHZ	SIGNAL BOARD SB1222, 4 DQ 24VDC 200KHZ
Product type designation		
Input current		
from backplane bus 5 V DC, typ.	50 mA	50 mA
Output voltage		
Power supply to the transmitters		
• Supply current, max.	4 mA; per channel	4 mA; per channel
Power losses		
Power loss, typ.	1 W	1 W
Digital inputs		
Number of digital inputs	0	0
Digital outputs		
Number of digital outputs	4; MOSFET, solid-state (current-sinking/current-sourcing)	4; MOSFET, solid-state (current-sinking/current-sourcing)
• In groups of	1	1
short-circuit protection	No	No
Switching capacity of the outputs		
• with resistive load, max.	0.1 A	0.1 A
Load resistance range		
• upper limit	5 Ω	10 Ω
Output voltage		
• Rated value (DC)	5 V	24 V
• for signal "0", max.	0.4 V	0.1 V; with 10 kOhm load
• for signal "1", min.	L+ (-0.5 V)	20 V
• for signal "1", max.	6 V	
Output current		
• for signal "1" rated value	0.1 A	0.1 A
• for signal "1" permissible range, max.	0.11 A	
• for signal "0" residual current, max.		10 μA
Cable length		
• shielded, max.	50 m	50 m

SIMATIC S7-1200 basic controller

I/O modules

Digital modules

SB 1222 digital output modules**Technical specifications (continued)**

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Interrupts/diagnostics/ status information		
Alarms		
• Alarms	Yes	Yes
Diagnostic messages		
• Diagnostic functions	Yes	Yes
Diagnostics indication LED		
• For status of the outputs	Yes	Yes
Degree and class of protection		
Degree of protection to EN 60529		
• IP20	Yes	Yes
Standards, approvals, certificates		
Marine approval		
• Germanischer Lloyd (GL)	Yes	Yes
Ambient conditions		
Free fall		
• Drop height, max. (in packaging)	0.3 m; five times, in dispatch package	0.3 m; five times, in dispatch package
Ambient temperature in operation		
• Permissible temperature range	0 °C to 55 °C horizontal installation, 0 °C to 45 °C vertical installation	-20 °C to +60 °C horizontal mounting, -20 °C to 50 °C vertical mounting, 95% humidity, non-condensing
• Min.	0 °C	-20 °C
• max.	55 °C	60 °C
Storage/transport temperature		
• Min.	-40 °C	-40 °C
• max.	70 °C	70 °C
Air pressure acc. to IEC 60068-2-13		
• Storage/transport, min.	660 hPa	660 hPa
• Storage/transport, max.	1 080 hPa	1 080 hPa
Relative humidity		
• Permissible range (without condensation) at 25 °C	95 %	95 %
Mechanics/material		
Type of housing (front)		
• plastic	Yes	Yes
Dimensions		
Width	38 mm	38 mm
Height	62 mm	62 mm
Depth	21 mm	21 mm
Weights		
Weight, approx.	40 g	40 g

Ordering data**Article No.****Article No.****SB 1222 Signal Board
digital output modules**

4 outputs, 5 V DC, 0.1 A, 200 kHz

4 outputs, 24 V DC, 0.1 A, 200 kHz

6ES7222-1AD30-0XB0**6ES7222-1BD30-0XB0****Terminal block (spare part)**

for Signal Board

with 6 screws, gold-plated; 4 pcs.

6ES7292-1BF30-0XA0