

SIEMENS

Product data sheet

6ES7223-3BD30-0XB0


SIMATIC S7-1200, DIGITAL I/O SB 1223,
2DI/2DQ, 24VDC 200KHZ

Input current		
from backplane bus 5 V DC, typ.		50 mA
Output voltage		
Power supply to the transmitters		
Supply current, max.		4 mA ; per channel
Power losses		
Power loss, typ.		1 W
Digital inputs		
Number/binary inputs		2 ; Current-sourcing
In groups of		1
Input characteristic curve acc. to IEC 61131, Type 1		Yes
Number of simultaneously controllable inputs		
all mounting positions		
up to 40 °C, max.		2
Input voltage		

Rated value, DC	24 V
for signal "0"	0 to 5 V
for signal "1"	15 to 30 V
Input current	
for signal "0", max. (permissible quiescent current)	2 mA
for signal "1", min.	5.8 mA
for signal "1", typ.	14 mA
Input delay (for rated value of input voltage)	
for standard inputs	
Parameterizable	Yes ; 0.2, 0.4, 0.8, 1.6, 3.2, 6.4, and 12.8 ms, selectable in groups of four
at "0" to "1", max.	2.5 μ s
for interrupt inputs	
Parameterizable	Yes
for counter/technological functions	
Parameterizable	Yes
Cable length	
Cable length, shielded, max.	Standard input: 500 m, high-speed counters: 50 m
Digital outputs	
Number/binary outputs	2 ; MOSFET, solid-state (current-sinking/current-sourcing)
In groups of	1
Functionality/short-circuit strength	No
Switching capacity of the outputs	
with resistive load, max.	0.1 A
Load resistance range	
upper limit	10 Ω
Output voltage	
Rated value (DC)	24 V
for signal "0", max.	0.1 V ; with 10 kOhm load
for signal "1", min.	20 V
Output current	
for signal "1" rated value	0.1 A
for signal "0" residual current, max.	10 μ A

Cable length	
Cable length, shielded, max.	50 m
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic messages	
Diagnostic functions	Yes
Diagnostics indication LED	
for status of the inputs	Yes
For status of the outputs	Yes
Degree and class of protection	
IP20	Yes
Standards, approvals, certificates	
Marine approval according to Germanischer Lloyd	Yes
Climatic and mechanical conditions for storage and transport	
Climatic conditions for storage and transport	
Free fall	
Drop height, max. (in packaging)	0.3 m ; five times, in dispatch package
Temperature	
Permissible temperature range	-40 °C to +70 °C
Air pressure acc. to IEC 60068-2-13	
Permissible air pressure	1080 to 660 hPa
Mechanical and climatic conditions during operation	
Climatic conditions in operation	
Temperature	
Permissible temperature range	0 °C to 55 °C horizontal installation 0 °C to 45 °C vertical installation
Mechanics/material	
Type of housing (front)	
Plastic	Yes
Dimensions	
Width	38 mm
Height	62 mm
Depth	21 mm

Weight	
Weight, approx.	40 g
Status	Jul 17, 2012