SIEMENS

Product data sheet

6ES7221-3BD30-0XB0

SIMATIC S7-1200, DIGITAL INPUT SB 1221, 4DI, 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 of digital inputs	4 ; Current-sourcing	
In groups of	1	
Input characteristic curve in accordance with IEC 61131, type 2	Yes	
Number of simultaneously controllable inputs		
all mounting positions		
up to 40 °C, max.	4	
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 µs
for interrupt inputs	
Parameterizable	Yes
for counter/technological functions	
Parameterizable	Yes
Cable length	
Cable length, shielded, max.	50 m; Standard input: 500 m, high-speed counters: 50 m
Interrupts/diagnostics/status information	
Alarms	
Alarms	Yes
Diagnostic messages	2
Diagnostic functions	Yes
Diagnostics indication LED	
for status of the inputs	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 trans	sport
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
Relative humidity	
Permissible range (without condensation) at 25 °C	95 %
Mechanical and climatic conditions during 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
Weights	
Weight, approx.	40 g
Status	Oct 28, 2013