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Data sheet 6ES7221-3AD30-0XB0

SIMATIC S7-1200, DIGITAL INPUT SB 1221, 4DI, 5VDC 200KHZ, SOURCE



Figure similar

Input current	
from backplane bus 5 V DC, typ.	40 mA
Power loss	
Power loss, typ.	1 W
Digital inputs	
Number of digital inputs	4; Current-sourcing
• in groups of	4
Input voltage	
• Type of input voltage	DC
• Rated value (DC)	5 V
• for signal "0"	(L+ minus 1.0 V DC) ... L+ (2.2 ... 0 mA)
• for signal "1"	0 V ... (L+ minus 2.0 V DC (20 ... 5.1 mA))
Input current	
• for signal "0", max. (permissible quiescent current)	2.2 mA
• for signal "1", min.	5.1 mA
Input delay (for rated value of input voltage)	
for standard inputs	

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— parameterizable	Yes; 0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 µs; 0.05 / 0.1 / 0.2 / 0.4 / 0.8 / 1.6 / 3.2 / 6.4 / 10.0 / 12.8 / 20.0 ms
for interrupt inputs	
— parameterizable	Yes
for counter/technological functions	
— parameterizable	Yes
Cable length	
• shielded, max.	50 m; shielded, twisted pair
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• for status of the inputs	Yes
Degree and class of protection	
Degree of protection acc. to EN 60529	
• IP20	Yes
Ambient conditions	
Free fall	
• Fall height, max.	0.3 m; five times, in product package
Ambient temperature during operation	
• permissible temperature range	-20 °C to +60 °C horizontal mounting, -20 °C to 50 °C vertical mounting with 2 simultaneously activated, non-adjacent inputs; otherwise up to 55 °C with horizontal mounting or 45 °C with vertical mounting
• min.	-20 °C
• max.	60 °C
Ambient temperature during storage/transportation	
• min.	-40 °C
• max.	70 °C
Air pressure acc. to IEC 60068-2-13	
• Storage/transport, min.	660 hPa
• Storage/transport, max.	1 080 hPa
Relative humidity	
• permissible range (without condensation) at 25 °C	95 %
Mechanics/material	
Enclosure material (front)	
• Plastic	Yes
Dimensions	
Width	38 mm
Height	62 mm
Depth	21 mm
Weights	

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Weight, approx.	35 g

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