



6ES7223-0BD30-0XB0 S7-1200, SIGNAL BOARD 2 DI/2 DO

Technical / CAx data

 Technical Data
  CAx data
**SIMATIC S7-1200, DIGITAL I/O SB 1223, 2 DI / 2 DO, 2 DI 24V DC/2 DO 24V DC****Supply voltages****Rated value**

permissible range, lower limit (DC)	20.4 V
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permissible range, upper limit (DC)	30 V
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**Power supply to the transmitters**

Supply current, max.	4 mA; per channel
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**Current consumption**

from backplane bus 5 V DC, typ.	50 mA
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**Power losses**

Power loss, typ.	1 W
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**Digital inputs**

Number of digital inputs	2
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in groups of	1
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**Number of simultaneously controllable inputs****all mounting positions**

Concurrently controllable inputs, up to 40 °C	2
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Input characteristic curve acc. to IEC 1131, Type 1	Yes
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**Input voltage**

Rated value, DC	24 V
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for signal "0"	0 to 5 V
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for signal "1"	15 to 30 V
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**Input current**

for signal "0", max. (permissible quiescent current)	1 mA
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for signal "1", typ.	0.5 A
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**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
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at "0" to "1", max.	2 μs
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at "1" to "0", max.	10 μs
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**for interrupt inputs**

parameterizable	Yes
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**for counter/technological functions**

parameterizable	Yes
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**Cable length**

Cable length, shielded, max.	500 m
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Cable length unshielded, max.	300 m
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**Digital outputs**

Number of digital outputs	2
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in groups of	1
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<b>Short-circuit protection of the output</b>	No
<b>Switching capacity of the outputs</b>	
<b>with resistive load, max.</b>	0.5 A
<b>on lamp load, max.</b>	5 W
<b>Output voltage</b>	
<b>Rated value (DC)</b>	24 V
<b>for signal "0" (DC), max.</b>	0.1 V; with 10k ohms load
<b>for signal "1", min.</b>	20 V
<b>Output current</b>	
<b>for signal "1" rated value</b>	0.5 A
<b>for signal "0" residual current, max.</b>	10 $\mu$ A
<b>Load resistance range</b>	
<b>upper limit</b>	0.6 $\Omega$
<b>Cable length</b>	
<b>Cable length, shielded, max.</b>	500 m
<b>Cable length unshielded, max.</b>	150 m
<b>Interrupts/diagnostics/status information</b>	
<b>Alarms</b>	
<b>Alarms</b>	Yes
<b>Diagnoses</b>	
<b>Diagnostic functions</b>	Yes
<b>Degree of protection</b>	
<b>IP20</b>	Yes
<b>Mechanics</b>	
<b>Plastic</b>	Yes
<b>Dimensions and weight</b>	
<b>Dimensions</b>	
<b>Width</b>	38 mm
<b>Height</b>	62 mm
<b>Depth</b>	21 mm
<b>Weight</b>	
<b>Weight, approx.</b>	40 g
<b>Status</b>	Jun 14, 2010