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Data sheet 6ES7131-7RF00-0AB0



SIMATIC DP, electronic module, for ET200iSP, 8 DI NAMUR, Ex ib (ia Ga) IIC T4 Gb, Ex ib [ia IIIC Da] IIC T4 Gb, Ex ib [ia] I Mb

General information	
Product type designation	8DI NAMUR
Input current	
Current consumption, typ.	80 mA
from supply voltage L+, max.	90 mA
Digital inputs	
Number of digital inputs	8
Digital input functions, parameterizable	
● Counter	
— Number, max.	2; normal and periodic count function
— Counting frequency, max.	5 kHz; with a cable length of 20 m: 5 kHz; with a cable length of 100 m: 1 kHz; with a cable length of 200 m: 500 Hz
Input current	
● for signal "0", max. (permissible quiescent current)	1.2 mA
● for signal "1", min.	2.1 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	2.8 ms
— at "0" to "1", max.	3.5 ms
— at "1" to "0", min.	2.8 ms
— at "1" to "0", max.	3.5 ms
Cable length	
● shielded, max.	500 m
Encoder	
Number of connectable encoders, max.	8
Connectable encoders	
● NAMUR encoder	Yes
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
● Diagnostic alarm	Yes; Parameterizable
● Hardware interrupt	No
Diagnoses	
● Diagnostic information readable	Yes
● Short-circuit	Yes; R load < 150 ohms with NAMUR sensor/sensor and NAMUR changeover contact/sensor to DIN 19234
Diagnostics indication LED	
● Group error SF (red)	Yes
● Status indicator digital input (green)	Yes
Integrated Functions	

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Frequency measurement	Yes; (Gate time) 50 ms; 200 ms; 1 s
● Number of frequency meters	2
Potential separation	
Potential separation digital inputs	
● between the channels	No
● between the channels and backplane bus	Yes
Permissible potential difference	
between different circuits	60 V DC/30 V AC
Standards, approvals, certificates	
CE mark	Yes
Dimensions	
Width	30 mm
Height	129 mm
Depth	136.5 mm
Weights	
Weight, approx.	255 g

last modified: 8/30/2023

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