



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	
<ul style="list-style-type: none"> <li>Counter                             <ul style="list-style-type: none"> <li>Number, max.</li> <li>Counting frequency, max.</li> </ul> </li> </ul>	2; normal and periodic count function 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	
<ul style="list-style-type: none"> <li>for signal "0", max. (permissible quiescent current)</li> <li>for signal "1", min.</li> </ul>	1.2 mA 2.1 mA
Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> <li>at "0" to "1", min.</li> <li>at "0" to "1", max.</li> <li>at "1" to "0", min.</li> <li>at "1" to "0", max.</li> </ul>	2.8 ms 3.5 ms 2.8 ms 3.5 ms
Cable length	
<ul style="list-style-type: none"> <li>shielded, max.</li> </ul>	500 m
Encoder	
Number of connectable encoders, max.	8
Connectable encoders	
<ul style="list-style-type: none"> <li>NAMUR encoder</li> </ul>	Yes
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
<ul style="list-style-type: none"> <li>Diagnostic alarm</li> <li>Hardware interrupt</li> </ul>	Yes; Parameterizable No
Diagnoses	
<ul style="list-style-type: none"> <li>Diagnostic information readable</li> <li>Short-circuit</li> </ul>	Yes Yes; R load < 150 ohms with NAMUR sensor/sensor and NAMUR changeover contact/sensor to DIN 19234
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>Group error SF (red)</li> <li>Status indicator digital input (green)</li> </ul>	Yes Yes
Integrated Functions	

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

**last modified:** 3/25/2021 