

SIMATIC DP, electronics module for ET200iS, 4 DI NAMUR

Input current	
From load voltage L+ (no load), typ.	140 mA
Power loss	
Power loss, typ.	1.68 W
Digital inputs	
Number of digital inputs	4
Parallel switching of inputs	No
Number of simultaneously controllable inputs	
• Number of simultaneously controllable inputs	4
all mounting positions	
— up to 40 °C, max.	4; in all other mounting positions
horizontal installation	
— up to 60 °C, max.	4
Input current	
for 10 k switched contact	
— for signal "0"	0.35 to 1.2 mA
— for signal "1"	2.1 to 7 mA
for unswitched contact	
— for signal "0", max. (permissible quiescent current)	0.5 mA
— for signal "1"	typ. 8 mA
for NAMUR encoders	
— for signal "0"	0.35 to 1.2 mA
— for signal "1"	2.1 to 7 mA
Input delay (for rated value of input voltage)	
• tolerated changeover time for changeover contacts	300 ms
for standard inputs	
— at "0" to "1", max.	3.5 ms; 2.8 to 3.5 ms
— at "1" to "0", max.	3.5 ms; 2.8 to 3.5 ms
Cable length	
• shielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes; Diagnostic information readable
Alarms	

• Diagnostic alarm	Yes; Parameterizable
• Hardware interrupt	No
Diagnostic messages	
• Wire-break	Yes; $I < 0.35 \text{ mA}$
• Short-circuit	Yes; $I > 7 \text{ mA}$
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes
Potential separation	
between load voltage and backplane bus	Yes
Potential separation digital inputs	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
Permissible potential difference	
between different circuits	60 V DC/30 V AC
Isolation	
tested with	
• Channels against backplane bus and load voltage L+	500 V AC
• Load voltage L+ against backplane bus	500 V AC
Standards, approvals, certificates	
Use in hazardous areas	
• Type of protection acc. to EN 50020 (CENELEC)	II2(1)G EEx ib[ia] IIC T4; Tu = -20 °C to +60 °C (module); II2 G EEx ia IIC (input; (Tu = +60°C for horizontal mounting)
• Type of protection acc. to FM	Available soon: FM 3611: Class I, Division 2, Group A-D, Class I, Zone 2 or FM 3610: Class I, Zone 1, Tu = -20 °C to +60 °C
Dimensions	
Width	30 mm
Height	81 mm
Depth	76 mm
Weights	
Weight, approx.	120 g
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