SIEMENS

Data sheet 6ES7131-0BL00-0XB0

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE DIGITAL, FOR ET 200B, W=235MM, 32DI 24V DC, 3MS INPUT DELAY

General information	
Usable terminal block	TB2/DC, TB2-4/DC, TB4/DC, TB4-4/DC
Supply voltage	
Rated value (DC)	24 V; L5+; value at t < 0.5 s: 35 V
permissible range, lower limit (DC)	18.5 V
permissible range, upper limit (DC)	30.2 V
Input current	
Current consumption, typ.	70 mA; From L5+; logic
Current consumption, max.	1 000 mA; from L5+; sensor
I^2t	0.05 $A^2 \cdot s$; with starting current inrush
Power loss	
Power loss, typ.	4.8 W
Digital inputs	
Number of digital inputs	32
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-30 to +5V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	4 mA; At 24 V min. 2 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	3 ms
Cable length	
• unshielded, max.	100 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s

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• FREEZE capability	Yes
Protocols	
Bus protocol/transmission protocol	PROFIBUS DP
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• RUN LED	Yes
• Bus fault BF (red)	Yes
• Status indicator digital input (green)	Yes
Potential separation	
between electronic block and PROFIBUS DP	Yes
Potential separation digital inputs	
• Potential separation digital inputs	No
Degree and class of protection	
Degree of protection acc. to EN 60529	IP20
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	0 °C
• horizontal installation, max.	60 °C; 40°C for other mountings
Air pressure acc. to IEC 60068-2-13	
• permissible range, lower limit	795 hPa
• permissible range, upper limit	1 080 hPa
Relative humidity	
• Operation, min.	15 %
• Operation, max.	95 %; RH class 2 in accordance with IEC 1131-2
Vibrations	
• Operation, tested according to IEC 60068-2-6	Yes; IEC 68, Part 2-6; 10 to 57 Hz; (constant amplitude 0.075 mm); 57 to 150 Hz; (constant acceleration 1 g)
Shock testing	
• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms
Connection method	
Design of electrical connection for the inputs and outputs	Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection
Dimensions	
Width	235 mm; EB and TB
Height	130 mm; EB and TB
Depth	60 mm; EB and TB
Weights	
Weight, approx.	800 g; EB and TB
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