

*** SPARE PART*** SIMATIC DP, ELECTRONIC MODULE
DIGITAL, FOR ET 200B, W=235MM, 32DO, 24V DC, 0.5A

Supply voltage	
Rated value (DC)	Yes; L1+, L2+, L3+, L4+, L5+; value at t < 0.5 s: 35 V
<ul style="list-style-type: none"> • 24 V DC 	
permissible range, lower limit (DC)	18.5 V
permissible range, upper limit (DC)	30.2 V
Input current	
Current consumption, typ.	75 mA; From L5+; logic
I ² t	0.05 A ² -s; with starting current inrush
Power loss	
Power loss, max.	7.9 W
Hardware configuration	
Rack	
<ul style="list-style-type: none"> • required terminal block 	TB2/DC, TB2-4/DC, TB4/DC, TB4-4/DC
Digital outputs	
Number of digital outputs	32
short-circuit protection	Yes; Electronic
Limitation of inductive shutdown voltage to	typ. (L1+ to L4+) -55 V
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> • on lamp load, max. 	5 W
Output voltage	
<ul style="list-style-type: none"> • Rated value (DC) 	24 V
<ul style="list-style-type: none"> • for signal "0", max. 	2 V; idling
<ul style="list-style-type: none"> • for signal "1", min. 	UE -3 V
Output current	
<ul style="list-style-type: none"> • for signal "1" permissible range, max. 	0.5 A; in groups of 8
<ul style="list-style-type: none"> • for signal "0" residual current, max. 	1 mA
Output delay with resistive load	
<ul style="list-style-type: none"> • "0" to "1", max. 	20 μs
<ul style="list-style-type: none"> • "1" to "0", max. 	0.5 ms
Switching frequency	
<ul style="list-style-type: none"> • with resistive load, max. 	100 Hz
<ul style="list-style-type: none"> • with inductive load, max. 	0.5 Hz
<ul style="list-style-type: none"> • on lamp load, max. 	8 Hz

Total current of the outputs (per group)	
all mounting positions	
— up to 60 °C, max.	2 A
Cable length	
• unshielded, max.	100 m
Interfaces	
PROFIBUS DP	
• Transmission rate, max.	12 Mbit/s
• SYNC 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 output (green)	Yes
Potential separation	
between electronic block and PROFIBUS DP	Yes
Potential separation digital outputs	
• Potential separation digital outputs	Yes
• between the channels, in groups of	8
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, min.	795 hPa
• permissible range, max.	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 test	
• tested according to IEC 60068-2-27	Yes; IEC 68, Part 2-27; half-sine, 15 g, 11 ms
Connection method	

Inputs/outputs	Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection
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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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last modified: 10.06.2015