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Data sheet 6ES7138-4DB00-0AB0

SIMATIC DP, ELECTRONIC MODULE F. ET 200S, 1 SSI 25BIT/1MHZ 15MM WIDE MODULE FOR CONN. OF ABSOLUTE ENCODERS WITH SSI INTERFACE SYNCHRONOUS SERIAL INTERFACE WITH DI AND COMPAR. VALUE

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
• Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	34 mA
from backplane bus 3.3 V DC, max.	10 mA
Encoder supply	
Absolute encoder (SSI) encoder supply	
• Absolute encoder (SSI)	Yes
• Type of output voltage	L+ (-0.8 V)
• Short-circuit protection	Yes
• Output current, max.	500 mA
Power loss	
Power loss, typ.	0.8 W
Digital inputs	
Number of digital inputs	1
Functions	Trigger for unlatching the current actual value, e.g. for length measurement
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	11 V DC to 30 V DC
• for signal "1"	-30 V DC to +5 V DC
Input current	
• for signal "0", max. (permissible quiescent current)	2 mA
• for signal "1", typ.	9 mA
Input delay (for rated value of input voltage)	
for standard inputs	

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— at "0" to "1", max.	300 µs
Cable length	
• shielded, max.	600 m
• unshielded, max.	32 m
Encoder	
Number of connectable encoders, max.	1
Connectable encoders	
• Absolute encoder (SSI)	Yes
• 2-wire sensor	Yes
Encoder signals, absolute encoder (SSI)	
• Telegram length, parameterizable	13, 21, 25 bit
• Binary code	1
• Gray code	1
• Cable length, shielded, max.	320 m; 320 m at 125 kHz, 160 m at 250 kHz, 60 m at 500 kHz, 20 m at 1 MHz, 8 m at 2 MHz, twisted in pairs and shielded
• Monoflop time	settable: 16/32/48/64 µs
Interrupts/diagnostics/status information	
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes
• Status indicator backward counting (green)	Yes
• Status indicator forward counting (green)	Yes
Parameter	
Remark	8 byte
Potential separation	
Potential separation counter	
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	No
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g

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