

*** SPARE PART *** SIMATIC DP, DISTRIBUTED I/O
ET200X:EXT.MODULE BM143/DESINA 8DI/DO CONFIGURABLE,
ADDITIONAL DIAGNOSTICS INPUTS, IP67



Input current

from backplane bus 5 V DC, max.	40 mA
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Encoder supply

Number of outputs	8
Short-circuit protection	Yes; Electronic

Output current

• up to 40 °C, max.	1 A
• up to 55 °C, max.	0.8 A

Power loss

Power loss, typ.	1.5 W
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Digital inputs

Number of digital inputs	8; 8 function inputs (diagnostic inputs or inputs with opener function)
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Input characteristic curve in accordance with IEC 61131, type 2	Yes
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Number of simultaneously controllable inputs

all mounting positions	8
— up to 55 °C, max.	8

Input voltage	
• Rated value (DC)	24 V; Input voltage for parameterized DI (Pin 4) / Input voltage for function input (Pin 2)
• for signal "0"	-30 to +5V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 µs
Cable length	
• unshielded, max.	30 m; for signal lines
Digital outputs	
Number of digital outputs	8; 8 process channels, parameterization as DI/DO; 8 function channels, parameter assignment as diagnostics/NC input
Short-circuit protection	Yes; Electronic
• Response threshold, typ.	1.8 A
Switching capacity of the outputs	
• on lamp load, max.	10 W
Output current	
• for signal "1" rated value	1.2 A
• for signal "0" residual current, max.	0.5 mA
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load (acc. to IEC 60947-5-1, DC13), max.	2 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per module)	
all mounting positions	
— up to 20 °C, max.	10 A
Cable length	
• unshielded, max.	30 m; for signal lines
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	

Diagnostic functions	Yes; Parameterizable
Diagnostics indication LED	
• Status indicator per channel (yellow)	Yes
• Indicator function input per channel (yellow/red)	Yes
Potential separation	
Potential separation digital inputs	
• between the channels	No
• between the channels and backplane bus	No
Potential separation digital outputs	
• between the channels	No
• between the channels and backplane bus	No
Dimensions	
Width	87 mm; Width module 60 mm
Height	180 mm
Depth	55 mm
Weights	
Weight, approx.	350 g
last modified:	08/29/2017