



SIMATIC DP, Electronic modules for ET 200 PRO 8 DI 24 V DC High Feature, Channel diagnostics; short-circuit and wire break; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately

General information	
Product function	
• Isochronous mode	No
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes; against destruction; load increasing
Input current	
from supply voltage 1L+, max.	40 mA
from backplane bus 3.3 V DC, max.	20 mA
Encoder supply	
Number of outputs	8
Short-circuit protection	Yes; per channel, electronic
Output current	
• up to 55 °C, max.	1 A
Power loss	
Power loss, typ.	2.5 W
Address area	
Address space per module	
• Address space per module, max.	1 byte
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 1	No
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes
— at "0" to "1", min.	0.5 ms; 0.5 ms/ 3ms/ 15 ms/ 20 ms
— at "0" to "1", max.	20 ms
— at "1" to "0", min.	0.5 ms; 0.5 ms/ 3ms/ 15 ms/ 20 ms
— at "1" to "0", max.	20 ms
Cable length	

• unshielded, max.	30 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes; channel by channel, parameterizable
Alarms	
• Diagnostic alarm	Yes
• Hardware interrupt	Yes
Diagnoses	
• Diagnostic information readable	Yes
• Wire-break	Yes; Monitoring, $I < 0.3 \text{ mA}$; per channel
• Short-circuit	Yes; channel by channel
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital input (green)	Yes; Per channel
Potential separation	
between backplane bus and all other circuit components	Yes
Potential separation digital inputs	
• between the channels	No
• between the channels and backplane bus	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Dimensions	
Width	45 mm
Height	130 mm
Depth	35 mm; without terminal module
Weights	
Weight, approx.	140 g

last modified: 5/22/2024 