

SIMATIC DP, Electronic modules for ET 200 PRO 4 DO 24 V DC, 2.0A High Feature, Channel diagnostics; short-circuit and wire break; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately



Supply voltage

Load voltage 2L+

• Rated value (DC)	24 V
• Short-circuit protection	Yes; per channel, electronic
• Reverse polarity protection	Yes; against destruction; load increasing

Input current

from load voltage 2L+ (without load), max.	40 mA
from backplane bus 3.3 V DC, max.	30 mA

Power loss

Power loss, typ.	2.5 W
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Address area

Address space per module

• Address space per module, max.	1 byte
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Digital outputs

Number of digital outputs	4
Short-circuit protection	Yes
• Response threshold, typ.	2.8 A

Limitation of inductive shutdown voltage to	2L+ (-47 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	10 W
Load resistance range	
• lower limit	12 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	2L+ (-0,8 V)
Output current	
• for signal "1" rated value	2 A
• for signal "0" residual current, max.	0.5 mA
Parallel switching of two outputs	
• for uprating	No
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 55 °C, max.	4 A
Cable length	
• shielded, max.	30 m
• unshielded, max.	30 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
• Wire-break	Yes; channel by channel
• Short-circuit	Yes; channel by channel
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes
• Channel fault indicator F (red)	Yes
Potential separation	
between backplane bus and all other circuit components	Yes

Potential separation digital outputs	
• between the channels	No
• between the channels and backplane bus	Yes

Isolation	
Isolation tested with	707 V DC (type test)

Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	Yes
Highest safety class achievable for safety-related tripping of standard modules	
• Performance level according to ISO 13849-1	PL d
• Category according to ISO 13849-1	Cat. 3
• SILCL according to IEC 62061	SILCL 2

Dimensions	
Width	45 mm
Height	130 mm
Depth	35 mm; without terminal module

Weights	
Weight, approx.	140 g
last modified:	08/16/2019