

SIMATIC DP, electronic module for ET 200 PRO, 4 DO 24 V DC, 2.0A; Module diagnostics; 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.	20 mA
from backplane bus 3.3 V DC, max.	20 mA

Power loss

Power loss, typ.	2 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
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Diagnostic information readable	Yes
• Short-circuit	Yes; Short-circuit of outputs to ground; module by module
Diagnostics indication LED	
• Group error SF (red)	Yes
• Status indicator digital output (green)	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

Weights

Weight, approx. 140 g

last modified: 05/13/2020