

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) - Short-circuit protection - Reverse polarity protection	24 V Yes; per channel, electronic 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
Address area	
Address space per module	
Address space per module, max.	1 byte
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 - upper limit	12 Ω 4 kΩ
Output voltage	
for signal "1", min.	2L+ (-0,8 V)
Output current	
- for signal "1" rated value - for signal "0" residual current, max.	2 A 0.5 mA
Parallel switching of two outputs	
- for uprating - for redundant control of a load	No Yes
Switching frequency	
- with resistive load, max. - with inductive load, max. - on lamp load, max.	100 Hz 0.5 Hz 1 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 55 °C, max.	4 A
Cable length	
- shielded, max. - unshielded, max.	30 m 30 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Diagnoses	
- Diagnostic information readable - Wire-break	Yes 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
• SIL acc. to IEC 62061	SIL 2
• remark on safety-oriented shutdown	https://support.industry.siemens.com/cs/de/en/view/39198632
Dimensions	
Width	45 mm
Height	130 mm
Depth	35 mm; without terminal module
Weights	
Weight, approx.	140 g

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