

SIMATIC DP, Electronic modules for ET 200 PRO 8 DO 24 V DC, 0.5 A Module diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately



Supply voltage	
Load voltage 2L+	
<ul style="list-style-type: none"> Rated value (DC) Short-circuit protection Reverse polarity protection 	<p>24 V</p> <p>Yes; per channel, electronic</p> <p>Yes; against destruction; load increasing</p>
Input current	
from load voltage 2L+ (without load), max.	30 mA
from backplane bus 3.3 V DC, max.	30 mA
Power loss	
Power loss, typ.	2 W
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	1 byte
Digital outputs	
Number of digital outputs	8
Short-circuit protection	Yes
<ul style="list-style-type: none"> Response threshold, typ. 	0.7 A

Limitation of inductive shutdown voltage to	2L+ (-47 V)
Controlling a digital input	Yes; Isolation between 1L+ and 2L+ is no longer provided, as 1M and 2M are jumpered
Switching capacity of the outputs	
• on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	
• for signal "1", min.	2L+ (-0,8 V)
Output current	
• for signal "1" rated value	0.5 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)
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Standards, approvals, certificates

Suitable for safety-related tripping of standard modules	Yes
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Highest safety class achievable for safety-related tripping of standard modules	
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| <ul style="list-style-type: none">• Performance level according to ISO 13849-1 | PL d |
| <ul style="list-style-type: none">• Category according to ISO 13849-1 | Cat. 3 |
| <ul style="list-style-type: none">• SILCL according to IEC 62061 | SILCL 2 |

Dimensions

Width	45 mm
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Height	130 mm
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Depth	35 mm
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Weights

Weight, approx.	140 g
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last modified:	05/13/2020
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