



SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DO HIGH FEATURE DC 24V/0.5A, 15 MM WIDTH DIAGNOSIS SHORT CIRCUIT, SF-LED 5 PIECES PER PACKAGING UNIT

Figure similar

### Supply voltage

Reverse voltage protection	Yes; when using the same load voltage as on the power module
Load voltage L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> <li>Reverse polarity protection</li> </ul>	24 V; From power module Yes; polarity reversal can lead to the digital outputs being connected through

### Input current

from load voltage L+ (without load), max.	5 mA; Per channel
from backplane bus 3.3 V DC, max.	10 mA

### Address area

Address space per module	
<ul style="list-style-type: none"> <li>with packing</li> <li>without packing</li> </ul>	4 bit 1 byte

### Digital outputs

Number of digital outputs	4
short-circuit protection	Yes
<ul style="list-style-type: none"> <li>Response threshold, typ.</li> </ul>	0.7 to 1.5 A
Limitation of inductive shutdown voltage to	-55 to -60 V, L+( )
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	5 W
Load resistance range	
<ul style="list-style-type: none"> <li>lower limit</li> <li>upper limit</li> </ul>	48 $\Omega$ 3 400 $\Omega$

<b>Output voltage</b>	
• for signal "1", min.	L+ (-1 V)
<b>Output current</b>	
• for signal "1" rated value	0.5 A
• for signal "1" permissible range for 0 to 60 °C, min.	7 mA
• for signal "1" permissible range for 0 to 60 °C, max.	600 mA
• for signal "0" residual current, max.	0.3 mA
<b>Output delay with resistive load</b>	
• "0" to "1", max.	100 µs
• "1" to "0", max.	300 µs
<b>Parallel switching of 2 outputs</b>	
• for increased power	No
• for redundant control of a load	Yes; per module
<b>Switching frequency</b>	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
<b>Aggregate current of outputs (per group)</b>	
all mounting positions	
— up to 60 °C, max.	2 A
<b>Cable length</b>	
• shielded, max.	1 000 m
• Unshielded, max.	600 m
<b>Isochronous mode</b>	
Isochronous operation (application synchronized up to terminal)	Yes
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
• Diagnostic functions	Yes
• Short circuit	Yes; Module-wise
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes; SF-LED (red)
• Status indicator digital output (green)	Yes; Per channel
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital outputs</b>	
• between the channels	No
• between the channels and the backplane bus	Yes
<b>Isolation</b>	
Isolation checked with	500 V DC

## Dimensions

Width	15 mm
Height	81 mm
Depth	52 mm

## Weights

Weight, approx.	40 g
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**last modified:** 12.03.2015