

SIMATIC DP, ELECT. SUBMODULE FOR ET 200IS, 2 DO, DC  
25V/25MA

Input current	
From load voltage L+ (no load), typ.	280 mA
Power loss	
Power loss, typ.	3.4 W
Digital outputs	
Number of digital outputs	2; simultaneously controllable
Short-circuit protection	Yes
• Response threshold, typ.	> 25 mA
No-load voltage U <sub>ao</sub> (DC)	25 V
Internal resistor R <sub>i</sub>	630 Ω
Trend key points E	
• Voltage U <sub>e</sub> (DC)	8.4 V
• Current I <sub>e</sub>	25 mA; one output; 50 mA (outputs connected in parallel)
Output current	
• for signal "0" residual current, max.	25 μA
Output delay with resistive load	
• "0" to "1", max.	2 ms
• "1" to "0", max.	1.5 ms
Parallel switching of two outputs	
• for uprating	Yes
• for redundant control of a load	Yes
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
Cable length	
• shielded, max.	200 m
• unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostic functions	Yes; Diagnostic information readable
Alarms	
• Diagnostic alarm	Yes; Parameterizable
• Hardware interrupt	No
Diagnostics indication LED	
• Group error SF (red)	Yes

- Status indicator digital output (green)

Yes

## Parameter

Diagnostics wire break	R > 250 kOhms, I < 100 µA
Diagnostics short-circuit	R < 80 Ohm (one output), R < 40 Ohm (outputs connected in parallel)

## Potential separation

between load voltage and backplane bus	Yes
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### Potential separation digital outputs

• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes

## Permissible potential difference

between different circuits	60 V DC/30 V AC
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## Isolation

### tested with

• Channels against backplane bus and load voltage L+	500 V AC
• Load voltage L+ against backplane bus	500 V AC

## Standards, approvals, certificates

### Use in hazardous areas

• Type of protection acc. to EN 50020 (CENELEC)	II2(1)G EEx ib[ia] IIC T4; Tu = -20 °C to +60 °C (module); II2 G EEx ia IIC (input; (Tu = +60°C for horizontal mounting)
• Type of protection acc. to FM	Available soon: FM 3611: Class I, Division 2, Group A-D, Class I, Zone 2 or FM 3610: Class I, Zone 1, Tu = -20 °C to +60 °C

## Dimensions

Width	30 mm
Height	81 mm
Depth	76 mm

## Weights

Weight, approx.	130 g
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**last modified:** 03/07/2017