

SIMATIC DP, electronics module for ET200iSP, 4 DQ, 17.4 V DC/40 mA, "L"-shutdown



Figure similar

Input current	
Current consumption, typ.	380 mA
from load voltage L+ (without load), max.	400 mA

  

Power loss	
Power loss, typ.	2.8 W

  

Address area	
Address space per module	
• Address space per module, max.	2 byte

  

Digital outputs	
Number of digital outputs	4; additionally 1 intrinsically-safe input for L shutdown
Short-circuit protection	Yes
No-load voltage U <sub>ao</sub> (DC)	17.4 V
Internal resistor R <sub>i</sub>	167 Ω
Trend key points E	
• Voltage U <sub>e</sub> (DC)	10.7 V
• Current I <sub>e</sub>	40 mA

<b>Output current</b>	
• for signal "1" rated value	0.04 A
<b>Output delay with resistive load</b>	
• "0" to "1", max.	2 ms
• "1" to "0", max.	1.5 ms
<b>Parallel switching of two outputs</b>	
• for uprating	Yes
<b>Switching frequency</b>	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
<b>Cable length</b>	
• shielded, max.	500 m
• unshielded, max.	500 m
<b>Interrupts/diagnostics/status information</b>	
Status indicator	Yes
Diagnostics function	Yes
<b>Alarms</b>	
• Diagnostic alarm	Yes; Parameterizable
<b>Diagnostic messages</b>	
• Diagnostic information readable	Yes
• Wire-break	Yes; $R > 10 \text{ kohms}$ , $I < 100 \mu\text{A}$
• Short-circuit	Yes; $R < 80 \text{ Ohm}$ (one output), $R < 40 \text{ Ohm}$ (outputs connected in parallel)
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes; Per channel
<b>Ex(i) characteristics</b>	
<b>Maximum values of output circuits (per channel)</b>	
• Co (permissible external capacity), max.	241 nF; For IIC, 1507 nF for IIB
• Io (short-circuit current), max.	118 mA
• Lo (permissible external inductivity), max.	1.7 mH; For IIC, 10.4 mH for IIB
• Po (power of load), max.	572 mW
• Uo (output no-load voltage), max.	19.4 V
<b>Potential separation</b>	
<b>Potential separation digital outputs</b>	
• between the channels	No
• between the channels and backplane bus	Yes
• Between the channels and load voltage L+	Yes
<b>Permissible potential difference</b>	
between different circuits	60 V DC/30 V AC

### Standards, approvals, certificates

CE mark Yes

### Highest safety class achievable in safety mode

• SIL acc. to IEC 61508 No

### Use in hazardous areas

• Type of protection acc. to EN 50020 (CENELEC) II 2 G (1) GD and I M2 Ex ib[ja][jaD] IIC T4; Ex ib [ja] I

• Type of protection acc. to KEMA 04 ATEX 1249

### Dimensions

Width 30 mm

Height 129 mm

Depth 136.5 mm

### Weights

Weight, approx. 255 g

**last modified:** 11/19/2019