



Figure similar

SIMATIC DP, electronic module for ET200iSP, 4 DQ, 25.5 V DC/22 mA, "L"-shutdown, Ex ib (ia Ga) IIC T4 Gb, Ex ib [ja IIIC Da] IIC T4 Gb, Ex ib [ia] I Mb

General information	
Product type designation	4DQ 25.5 V DC/22 mA
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	
Type of digital output	Transistor
Number of digital outputs	4; additionally 1 intrinsically-safe input for L shutdown
Short-circuit protection	Yes
No-load voltage $U_{ao}$ (DC)	25.5 V
Internal resistor $R_i$	260 $\Omega$
Trend key points E	
• Voltage $U_e$ (DC)	19.8 V
• Current $I_e$	22 mA
Output current	
• for signal "1" rated value	0.022 A
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	No
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
Cable length	
• shielded, max.	500 m
• unshielded, max.	500 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
• Diagnostic alarm	Yes; Parameterizable
Diagnoses	
• Diagnostic information readable	Yes
• Wire-break	Yes; $R > 10 \text{ kohms}$ , $I < 100 \mu\text{A}$

• Short-circuit	Yes; R < 80 ohms
<b>Diagnostics indication LED</b>	
• Group error SF (red)	Yes
• Status indicator digital output (green)	Yes; Per channel
<b>Ex(i) characteristics</b>	
maximum values for connecting terminals for gas group IIC	
• Uo (no-load voltage), max.	27.9 V
• Io (short-circuit current), max.	110 mA
• Po (power output), max.	764 mW
• Co (permissible external capacity), max.	81 nF; For IIC, 651 nF for IIB
• Lo (permissible external inductivity), max.	1.7 mH; For IIC, 11.5 mH for IIB
<b>Potential separation</b>	
Potential separation digital outputs	
• 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
<b>Standards, approvals, certificates</b>	
CE mark	Yes
Highest safety class achievable in safety mode	
• SIL acc. to IEC 61508	No
<b>Dimensions</b>	
Width	30 mm
Height	129 mm
Depth	136.5 mm
<b>Weights</b>	
Weight, approx.	255 g
<b>last modified:</b>	3/16/2021 