SIEMENS

Data sheet

6DL1132-6CB00-0HX1



SIMATIC ET 200SP HA, ET 200SP, digital ex-i output module, Ex-DQ 2x17,4VDC/27mA suitable for BaseUnit type X1, channel diagnostics

2	
General information	
Product type designation	Ex-DQ 2x17.4VDC/27mA
Firmware version	V1.0
FW update possible	Yes
usable BaseUnits	BU type X1
Product function	
● I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	STEP 7 V16 or higher with HSP
 STEP 7 configurable/integrated from version 	STEP 7 V5.6 SP2 or higher
 PCS 7 configurable/integrated from version 	V9.1
Operating mode	
• DQ	Yes
• MSO	Yes
Redundancy	
 Redundancy capability 	No
Input current	
Current consumption (rated value)	80 mA; at 27 mA per channel
Current consumption, max.	80 mA; at 27 mA per channel
output voltage / header	
Rated value (DC)	17.4 V; See output characteristic in manual
Power loss	
Power loss, typ.	1.2 W
Address area	
Address space per module	
Address space per module, max.	1 byte; + 1 byte for QI information
Hardware configuration	
Automatic encoding	
Mechanical coding element	Yes
Selection of BaseUnit for connection variants	
2-wire connection	BU type X1
Digital outputs	
Number of digital outputs	2
Current-sinking	No
Current-sourcing	Yes
Digital outputs, parameterizable	Yes
Short-circuit protection	Yes
Open-circuit detection	Yes; capacitive loads can cause wire-break diagnostics when the channel is switched off

Overload protection	Yes
Limitation of inductive shutdown voltage to	DQ.n- (-1 V)
Switching capacity of the outputs	Date (1 v)
with resistive load, max.	27 mA; See output characteristic in manual
with inductive load, max.	27 mA; See output characteristic in manual
Load resistance range	27 mA, occ output characteristic in manual
• lower limit	480 Ω; parallel operation 240 ohm, see output characteristic in manual
• upper limit	10 kΩ; parallel operation 5 kOhm, see output characteristic in manual
Output current	10 ksz, paralier operation 3 koriin, see output characteristic in manual
• for signal "1" rated value	27 mA
• for signal "0" residual current, max.	100 μA; 250 μA test current for wire break diagnostics, parallel operation 500
Tor signar or residual current, max.	μA
Output delay with resistive load	
• "0" to "1", typ.	50 μs
• "1" to "0", typ.	100 μs
Parallel switching of two outputs	
• for uprating	Yes
Switching frequency	
with resistive load, max.	500 Hz
with inductive load, max.	500 Hz
Total current of the outputs	
Current per channel, max.	27 mA
Current per module, max.	54 mA
Total current of the outputs (per module)	
horizontal installation	
— up to 70 °C, max.	54 mA
vertical installation	3
— up to 60 °C, max.	54 mA
Cable length	011IIX
• shielded, max.	500 m; Ex characteristic values must be observed
• unshielded, max.	500 m; Ex characteristic values must be observed
nterrupts/diagnostics/status information	The state of the s
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	165
Diagnostic alarm	Yes
-	Yes
Maintenance interrupt	Tes .
Diagnoses	Vee
Diagnostic information readable Maritaring the guardy walkers	Yes
Monitoring the supply voltage	Yes
— parameterizable	Yes
Wire-break Chart singuit	Yes; channel by channel
Short-circuit	Yes; channel by channel
• Group error	Yes
Diagnostics indication LED	V V II 150
• MAINT LED	Yes; Yellow LED
Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
Channel status display	Yes; green LED
 for channel diagnostics 	Yes; red LED
for module diagnostics	Yes; green/red DIAG LED
Ex(i) characteristics	
maximum values for connecting terminals for gas group IIC	
 Uo (no-load voltage), max. 	19.4 V
 lo (short-circuit current), max. 	133 mA; parallel operation 266 mA
 Po (power output), max. 	645 mW; parallel operation 1 290 mW
 Co (permissible external capacity), max. 	232 nF; parallel operation 220 nF
 Lo (permissible external inductivity), max. 	1.9 mH; parallel operation 328 uH
 Um (voltage at non-intrinsically safe connecting terminals), max. 	60 V
Potential separation	

• between the channels	No
• between the channels and backplane bus	Yes
 between the channels and the power supply of the electronics 	Yes; Electrical isolation between the channels and input voltage PME
Isolation	
Isolation tested with	further information on insulation can be found in the "ET 200SP HA / ET 200SP modules for devices in hazardous areas" System Manual
insulation of the field circuits to local ground acc. to IEC/EN 60079-11 tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
 horizontal installation, min. 	-40 °C
 horizontal installation, max. 	70 °C
 vertical installation, min. 	-40 °C
 vertical installation, max. 	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	55 g

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