SIEMENS

Data sheet

6DL1132-6EB00-0HX1



SIMATIC ET 200SP HA, ET 200SP, digital ex-i output module, Ex-DQ 2x23,1VDC/20mA suitable for BaseUnit type X1, channel diagnostics

General information		
Product type designation	Ex-DQ 2x23.1VDC/20mA	
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 	V16	
 PCS 7 configurable/integrated from version 	V9.1	
 PCS neo can be configured/integrated from version 	V3.1	
 PROFINET from GSD version/GSD revision 	GSDML V2.35	
Operating mode		
• DQ	Yes	
• MSO	Yes	
Redundancy		
 Redundancy capability 	No	
Input current		
Current consumption (rated value)	80 mA; At 20 mA per channel	
Current consumption, max.	80 mA; At 20 mA per channel	
output voltage / header		
Rated value (DC)	23.1 V; See output characteristic in manual	
Power loss		
Power loss, typ.	1.3 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	
with resistive load, max.	20 mA; See output characteristic in manual
with resistive load, max.	20 mA; See output characteristic in manual
Load resistance range	
lower limit	872 Ω; See output characteristic in manual
upper limit Output current	10 k Ω ; See output characteristic in manual
	20 mA
for signal "1" rated value	
for signal "0" residual current, max.	100 μ A; 250 μ A test current for wire break diagnostics
Output delay with resistive load	50
• "0" to "1", typ.	50 µs
• "1" to "0", typ.	100 µs
Parallel switching of two outputs	
for uprating	No
Switching frequency	
with resistive load, max.	500 Hz
with inductive load, max.	500 Hz
Total current of the outputs	
 Current per channel, max. 	20 mA
Current per module, max.	40 mA
Total current of the outputs (per module)	
horizontal installation	
— up to 70 °C, max.	40 mA
vertical installation	
— up to 60 °C, max.	40 mA
Cable length	
 shielded, max. 	500 m; Ex characteristic values must be observed
• unshielded, max.	500 m; Ex characteristic values must be observed
terrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
Diagnostic alarm	Yes
Maintenance interrupt	Yes
Diagnoses	
Diagnostic information readable	Yes
Monitoring the supply voltage	Yes
- parameterizable	Yes
Wire-break	Yes; channel by channel
Wire-break Short-circuit	Yes; channel by channel Yes; channel by channel
Group error	Yes
Diagnostics indication LED	Very Vellow LED
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
x(i) characteristics	
maximum values for connecting terminals for gas group IIC	
 Uo (no-load voltage), max. 	24.8 V
 Io (short-circuit current), max. 	99 mA
• Po (power output), max.	614 mW
• Co (permissible external capacity), max.	100 nF
• Lo (permissible external inductivity), max.	3.5 mH
 Um (voltage at non-intrinsically safe connecting terminals), max. 	60 V
	60 V

 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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