SIEMENS

Data sheet

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

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 	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 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

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	switched off
Overload protection	Yes
Overload protection	
Limitation of inductive shutdown voltage to	DQ.n- (-1 V)
Switching capacity of the outputs	07 m A. Oss subut ab an deristis in manual
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	
lower limit	480 Ω ; parallel operation 240 ohm, see output characteristic in manual
• upper limit	10 k Ω ; parallel operation 5 kOhm, see output characteristic in manual
Output current	
• for signal "1" rated value	27 mA
 for signal "0" residual current, max. 	100 μ A; 250 μ A test current for wire break diagnostics, parallel operation 500 μ A
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 resistive load, max. with inductive load, max.	500 Hz
Total current of the outputs	
Current per channel, max.	27 mA
Current per module, max.	54 mA
	04 IIIA
Total current of the outputs (per module)	
horizontal installation	54 m A
— up to 70 °C, max.	54 mA
vertical installation	54 m A
— up to 60 °C, max.	54 mA
Cable length	500 m; Ex obstractoriatio values must be observed
shielded, max.	500 m; Ex characteristic values must be observed
unshielded, max.	500 m; Ex characteristic values must be observed
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	N
Diagnostic alarm	Yes
Maintenance interrupt	Yes
Diagnoses	
Diagnostic information readable	Yes
Monitoring the supply voltage	Yes
— parameterizable	Yes
• Wire-break	Yes; channel by channel
Short-circuit	Yes; channel by channel
• Group error	Yes
Diagnostics indication 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
Ex(i) characteristics	
maximum values for connecting terminals for gas group IIC	
 Uo (no-load voltage), max. 	19.4 V
 Io (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	60 V
terminals), max.	
Potential separation	

Potential separation channels	
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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