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Data sheet 6DL1132-6CB00-0HX1

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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
● STEP 7 configurable/integrated from version	V5.6 SP2
● 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	
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

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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.	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 kΩ; 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 µA; 250 µA test current for wire break diagnostics, parallel operation 500 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	
— up to 60 °C, max.	54 mA
Cable length	
● 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	
● 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

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● 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 terminals), max.	60 V
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

Classifications

	Version	Classification
eClass	16	27-24-26-04
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599

Approvals / Certificates

General Product Approval

General Product Approval	For use in hazardous locations

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Manufacturer Declaration

CCC

UL

Miscellaneous

IECEx

ATEX

Maritime application

ABS

BUREAU VERITAS

DNV

LRS

NK / Nippon Kaiji Kyokai

RINA

Maritime application	Environment

CCS (China Classification Society)

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EPD

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