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## Data sheet 6DL1132-6EB00-0HX1

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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 |
| ● 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 20 mA per channel |
| Current consumption, max. | 80 mA; At 20 mA per channel |
| **Output voltage** | |
| 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 |


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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. | 20 mA; See output characteristic in manual |
| ● with inductive load, max. | 20 mA; See output characteristic in manual |
| Load resistance range | |
| ● lower limit | 872 Ω; See output characteristic in manual |
| ● upper limit | 10 kΩ; See output characteristic in manual |
| Output current | |
| ● for signal "1" rated value | 20 mA |
| ● for signal "0" residual current, max. | 100 µA; 250 µA test current for wire break diagnostics |
| Output delay with resistive load | |
| ● "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 |
| **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. | 24.8 V |
| ● Io (short-circuit current), max. | 99 mA |


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| | |
|---|---|
| ● 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 |
| **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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