



Data sheet

6ES7131-1BL12-0XB0

*** SPARE PART*** SIMATIC DP, ELECTRONIC BLOCK FOR ET 200L, DIGITAL, 32 DI, 24V DC, EXPANDABLE WITH MAX. 16 CHANNELS WITH TERMINAL BLOCK TB 16SC OF SMART CONNECT

Supply voltage

Rated value (DC)	24 V
Reverse polarity protection	Yes

Mains buffering

- Mains/voltage failure stored energytime 20 ms

Load voltage L+

- Rated value (DC) 24 V

Input current

from supply voltage L+, max.	180 mA
from load voltage L+ (without load), max.	50 mA; Per load group (L1+ or L2+ /L3+)

Power loss

Power loss, typ.	4.8 W
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Hardware configuration

Rack

- required terminal block TB 32L

Digital inputs

Number of digital inputs	32; Expansion: digital and analog with SIMATIC SC
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Input voltage

- Rated value (DC) 24 V
- for signal "0" -30 to +5V
- for signal "1" 13 to 30V

Input current

- for signal "1", typ. 5 mA

Input delay (for rated value of input voltage)

for standard inputs

- at "0" to "1", min. 2 ms
- at "0" to "1", max. 4.5 ms

Cable length

- shielded, max. 1 000 m
- unshielded, max. 600 m

Encoder

Connectable encoders



- | | |
|---|--------|
| • 2-wire sensor | Yes |
| — permissible quiescent current (2-wire sensor), max. | 1.5 mA |

Interfaces

PROFIBUS DP

- | | |
|---------------------------|------------|
| • Transmission rate, max. | 1.5 Mbit/s |
| • SYNC capability | Yes |
| • FREEZE capability | Yes |

Interrupts/diagnostics/status information

Alarms	No
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Diagnostic functions	Yes
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Diagnostics indication LED

- | | |
|---|-----|
| • Bus fault BF (red) | Yes |
| • Status indicator digital input (green) | Yes |
| • Monitoring 24 V voltage supply ON (green) | Yes |

Potential separation

Potential separation digital inputs

- | | |
|--|-----|
| • between the channels | No |
| • between the channels and PROFIBUS DP | Yes |

Isolation

Isolation tested with	500 V DC
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last modified:	10/08/2016
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