

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

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
Mains buffering	
• Mains/voltage failure stored energy time	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 W
Hardware configuration	
Rack	
• required terminal block	TB 16L
Digital inputs	
Number of digital inputs	16; Expansion: digital and analog with SIMATIC SC
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

Diagnostic functions Yes

### 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

**last modified:** 08/12/2017