

ET 200S COMPACT, 16DI/16DO STD DC24V, 3MS; DC24V, 0.5A
EXPANDABLE WITH UP TO 12 ET 200S MODULES (NO F-
MODULES) ELECTRONICBLOCK



Figure similar

General information

Vendor identification (VendorID) 8200H

Supply voltage

Load voltage 1L+

- Rated value (DC) 24 V
- Reverse polarity protection Yes

Input current

from supply voltage 1L+, max. 100 mA

Address area

Addressing volume

- Inputs 100 byte
- Outputs 100 byte

Digital inputs

Number of digital inputs 16

Input voltage

- Type of input voltage DC
- Rated value (DC) 24 V

• for signal "0"	-30 to +5V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	3 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	1.2 ms; typically 3 ms
— at "0" to "1", max.	4.8 ms; typically 3 ms
— at "1" to "0", min.	1.2 ms; typically 3 ms
— at "1" to "0", max.	4.8 ms; typically 3 ms
Cable length	
• unshielded, max.	1 000 m
Digital outputs	
Number of digital outputs	16
Short-circuit protection	Yes
Limitation of inductive shutdown voltage to	L+ (-55 to -60 V)
Controlling a digital input	Yes
Switching capacity of the outputs	
• on lamp load, max.	5 W
Output voltage	
• for signal "1", min.	L+ (-0.8 V)
Output current	
• for signal "1" permissible range, min.	7 mA
• for signal "1" permissible range, max.	0.6 A
• for signal "0" residual current, max.	0.5 mA
Output delay with resistive load	
• "0" to "1", max.	0.5 ms
• "1" to "0", max.	1.3 ms
Switching frequency	
• with resistive load, max.	100 Hz
• with inductive load, max.	2 Hz
• on lamp load, max.	10 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 60 °C, max.	2 A
Cable length	
• unshielded, max.	1 000 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes

— permissible quiescent current (2-wire sensor), max.	1.5 mA
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Interfaces

Interface physics, RS 485	Yes
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Interface physics, FOC	No
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PROFIBUS DP

- | | |
|---|-----------|
| • Output current, max. | 80 mA |
| • Transmission rate, max. | 12 Mbit/s |
| • Transmission procedure | RS 485 |
| • Direct data exchange (slave-to-slave communication) | Yes |

Cable length

— Cable length, max.	1 200 m
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Protocols

Supports protocol for PROFINET IO	No
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PROFIBUS DP	Yes
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Protocols (Ethernet)

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|----------|----|
| • TCP/IP | No |
|----------|----|

Isochronous mode

Isochronous operation (application synchronized up to terminal)	No
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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 |
| • Group error SF (red) | Yes |
| • Status indicator digital output (green) | Yes |
| • Status indicator digital input (green) | Yes |
| • Monitoring 24 V voltage supply ON (green) | Yes |

Potential separation

between backplane bus and electronics	No
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between supply voltage and electronics	No
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Potential separation digital inputs

- | | |
|---------------------------------------|----|
| • Potential separation digital inputs | No |
|---------------------------------------|----|

Potential separation digital outputs

- | | |
|--|-----|
| • Potential separation digital outputs | Yes |
|--|-----|

Isolation

Isolation tested with	500 V DC
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Degree and class of protection

IP degree of protection	IP20
Connection method	
Inputs/outputs	Screw-type and spring-loaded terminals, permanent wiring; 3 and 4-wire connection
Dimensions	
Width	120 mm
Height	81 mm
Depth	58 mm
Weights	
Weight, approx.	230 g; EB only
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