

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
Interface physics, FOC	No
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

Protocols

Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
Protocols (Ethernet)	
• TCP/IP	No

Isochronous mode

Isochronous operation (application synchronized up to terminal)	No
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Interrupts/diagnostics/status information

Alarms	No
Diagnostic functions	Yes
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
between supply voltage and electronics	No
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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