

ET 200S Compact, 16 DI/16 DO STD 24 V DC, 3ms,; 24 V DC, 0.5 A expandable by up to 12 modules of the ET 200S (no F modules) electronic module



Figure similar

General information	
Vendor identification (VendorID)	8200H
Supply voltage	
Load voltage 1L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	Yes
Input current	
from supply voltage 1L+, max.	100 mA
Power loss	
Power loss, typ.	3 W
Address area	
Addressing volume	
<ul style="list-style-type: none"> Inputs 	100 byte
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> • 2-wire sensor — permissible quiescent current (2-wire sensor), max. 	Yes 1.5 mA
Interfaces	
Transmission procedure	RS 485
Interface physics, RS 485	Yes
Interface physics, FOC	No
PROFIBUS DP	
<ul style="list-style-type: none"> • Output current, max. • Transmission rate, max. • Direct data exchange (slave-to-slave communication) • Cable length, max. 	80 mA 12 Mbit/s Yes 1 200 m
Protocols	
Supports protocol for PROFINET IO	No
PROFIBUS DP	Yes
Protocols (Ethernet)	
<ul style="list-style-type: none"> • TCP/IP 	No
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Alarms	No
Diagnostic functions	Yes
Diagnostics indication LED	
<ul style="list-style-type: none"> • Bus fault BF (red) • Group error SF (red) • Status indicator digital input (green) • Status indicator digital output (green) • Monitoring 24 V voltage supply ON (green) 	Yes Yes Yes Yes Yes
Potential separation	
between backplane bus and electronics	No
between supply voltage and electronics	No
Potential separation digital inputs	
<ul style="list-style-type: none"> • Potential separation digital inputs 	No
Potential separation digital outputs	
<ul style="list-style-type: none"> • Potential separation digital outputs 	Yes
Isolation	

Isolation tested with	500 V DC
Degree and class of protection	
IP degree of protection	IP20
Connection method	
Design of electrical connection for the inputs and 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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