



SIMATIC DP, ET 200ECO PN, 8 DI 24 V DC; 4xM12, Duplicate assignment, Degree of protection IP67

General information	
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0306H
Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes
power supply according to NEC Class 2 required	Yes
Input current	
Current consumption, typ.	100 mA
from supply voltage 1L+, max.	4 A
Encoder supply	
Number of outputs	4
24 V encoder supply	
<ul style="list-style-type: none"> <li>Short-circuit protection</li> <li>Output current, max.</li> </ul>	Yes; Electronic 100 mA; per output
Power loss	
Power loss, typ.	5.5 W
Digital inputs	
Number of digital inputs	8
<ul style="list-style-type: none"> <li>in groups of</li> </ul>	2
Input characteristic curve in accordance with IEC 61131, type 3	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 60 °C, max.	8
Input voltage	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> <li>for signal "0"</li> <li>for signal "1"</li> </ul>	24 V -3 to +5V +11 to +30V
Input current	
<ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	typically 3 ms
— at "1" to "0", max.	typically 3 ms
Cable length	
<ul style="list-style-type: none"> <li>unshielded, max.</li> </ul>	30 m
Encoder	
Connectable encoders	

- 2-wire sensor
- permissible quiescent current (2-wire sensor), max.

Yes  
1.5 mA

## Interfaces

Transmission procedure	100BASE-TX
Number of PROFINET interfaces	1

### 1. Interface

Interface types	
• M12 port	Yes
• integrated switch	Yes

### Interface types

M12 port	
• Autonegotiation	Yes
• Autocrossing	Yes
• Transmission rate, max.	100 Mbit/s

### Protocols

Supports protocol for PROFINET IO	Yes
PROFINET CBA	No
PROFIsafe	No

### PROFINET IO Device

Services	
— IRT with the option "high flexibility"	Yes
— Prioritized startup	Yes

### Redundancy mode

Media redundancy	
— MRP	Yes

### Open IE communication

• TCP/IP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
• ping	Yes
• ARP	Yes

### Interrupts/diagnostics/status information

Diagnostics function	Yes
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### Alarms

• Diagnostic alarm	Yes
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### Diagnoses

• Diagnostic information readable	Yes
• Monitoring the supply voltage	Yes; green "ON" LED
• Wire-break in signal transmitter cable	Yes
• Short-circuit encoder supply	Yes; Per channel group
• Group error	Yes; Red/yellow "SF/MT" LED

### Potential separation

between the load voltages	Yes
between load voltage and all other switching components	No
between Ethernet and electronics	Yes

### Potential separation channels

• between the channels	No
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### Isolation

tested with	
• 24 V DC circuits	707 V DC (type test)
• Test voltage for interface, rms value [Vrms]	1 500 V; According to IEEE 802.3

### Degree and class of protection

IP degree of protection	IP65/67
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### connection method / header

Design of electrical connection	4/5-pin M12 circular connectors
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### Dimensions

Width	30 mm
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Height	200 mm
Depth	49 mm
<b>Weights</b>	
Weight, approx.	550 g
<b>last modified:</b>	10/25/2021 