



SIMATIC DP, ET 200ECO PN, 8 DI 24 V DC; 8xM12, 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	8
24 V encoder supply	
<ul style="list-style-type: none"> <li>Short-circuit protection</li> </ul>	Yes; Electronic
<ul style="list-style-type: none"> <li>Output current, max.</li> </ul>	100 mA; per output
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8
<ul style="list-style-type: none"> <li>in groups of</li> </ul>	1
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> </ul>	24 V
<ul style="list-style-type: none"> <li>for signal "0"</li> </ul>	-3 to +5V
<ul style="list-style-type: none"> <li>for signal "1"</li> </ul>	+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
- integrated switch

Yes  
Yes

#### Interface types

##### M12 port

- Autonegotiation
- Autocrossing
- Transmission rate, max.

Yes  
Yes  
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"
- Prioritized startup

Yes  
Yes

#### Redundancy mode

##### Media redundancy

- MRP

Yes

#### Open IE communication

- TCP/IP
- SNMP
- DCP
- LLDP
- ping
- ARP

No  
Yes  
Yes  
Yes  
Yes  
Yes

## Interrupts/diagnostics/status information

Diagnostics function	Yes
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#### Alarms

- Diagnostic alarm

Yes

#### Diagnoses

- Diagnostic information readable
- Monitoring the supply voltage
- Wire-break in signal transmitter cable
- Short-circuit encoder supply
- Group error

Yes  
Yes; green "ON" LED  
Yes  
Yes; Per channel group  
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

## Isolation

#### tested with

- 24 V DC circuits
- Test voltage for interface, rms value [Vrms]

707 V DC (type test)  
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	60 mm
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Height	175 mm
Depth	49 mm
<b>Weights</b>	
Weight, approx.	910 g
<b>last modified:</b>	10/25/2021 