



Figure similar

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	
• Short-circuit protection	Yes; Electronic
• Output current, max.	100 mA; per output
Power loss	
Power loss, typ.	4.5 W
Digital inputs	
Number of digital inputs	8
• in groups of	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	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	+11 to +30V
Input current	
• for signal "1", typ.	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	
• unshielded, max.	30 m
Encoder	
Connectable encoders	
• 2-wire sensor	Yes

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

Alarms

- | | |
|--------------------|-----|
| • Diagnostic alarm | Yes |
|--------------------|-----|

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 |
|------------------------|----|

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 |
|-------------------------|---------|

Standards, approvals, certificates

Use in hazardous areas

- | | |
|--|--------------------------------|
| • Explosion protection category for gas | ATEX II 3G Ex nA II T4 |
| • Explosion protection category for dust | ATEX II 3D Ex tc IIIC T90°C Dc |

connection method

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

Dimensions

Width	60 mm
Height	175 mm
Depth	49 mm
Weights	
Weight, approx.	910 g

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