



SIMATIC DP, ET 200ECO PN, 16 DI 24 V DC; 8xM12, duplicate assignment; Degree of protection IP67

Figure similar

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.	6.5 W
Digital inputs	
Number of digital inputs	16
• in groups of	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.	16
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	
<ul style="list-style-type: none"> <li>• M12 port</li> <li>• integrated switch</li> </ul>	<p>Yes</p> <p>Yes</p>
Interface types	
M12 port	
<ul style="list-style-type: none"> <li>• Autonegotiation</li> <li>• Autocrossing</li> <li>• Transmission rate, max.</li> </ul>	<p>Yes</p> <p>Yes</p> <p>100 Mbit/s</p>
Protocols	
Supports protocol for PROFINET IO	Yes
PROFINET CBA	No
PROFIsafe	No
PROFINET IO Device	
Services	
<ul style="list-style-type: none"> <li>— IRT with the option "high flexibility"</li> <li>— Prioritized startup</li> </ul>	<p>Yes</p> <p>Yes</p>
Redundancy mode	
Media redundancy	
<ul style="list-style-type: none"> <li>— MRP</li> </ul>	Yes
Open IE communication	
<ul style="list-style-type: none"> <li>• TCP/IP</li> <li>• SNMP</li> <li>• DCP</li> <li>• LLDP</li> <li>• ping</li> <li>• ARP</li> </ul>	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
<ul style="list-style-type: none"> <li>• Diagnostic alarm</li> </ul>	Yes
Diagnoses	
<ul style="list-style-type: none"> <li>• Diagnostic information readable</li> <li>• Monitoring the supply voltage</li> <li>• Wire-break in signal transmitter cable</li> <li>• Short-circuit encoder supply</li> <li>• Group error</li> </ul>	<p>Yes</p> <p>Yes; green "ON" LED</p> <p>Yes</p> <p>Yes; Per channel group</p> <p>Yes; Red/yellow "SF/MT" LED</p>
Potential separation	
between the load voltages	Yes
between load voltage and all other switching components	No
between Ethernet and electronics	Yes
Potential separation channels	
<ul style="list-style-type: none"> <li>• between the channels</li> </ul>	No
Isolation	
tested with	
<ul style="list-style-type: none"> <li>• 24 V DC circuits</li> <li>• Test voltage for interface, rms value [Vrms]</li> </ul>	<p>707 V DC (type test)</p> <p>1 500 V; According to IEEE 802.3</p>
Degree and class of protection	
IP degree of protection	IP65/67
connection method	
Design of electrical connection	4/5-pin M12 circular connectors
Dimensions	
Width	60 mm
Height	175 mm
Depth	49 mm
Weights	

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Weight, approx.

910 g

**last modified:**

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