

\*\*\* spare part \*\*\* 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> </ul>	Yes; Electronic
<ul style="list-style-type: none"> <li>Output current, max.</li> </ul>	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> </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	
<ul style="list-style-type: none"> <li>2-wire sensor</li> </ul>	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> </ul>	Yes
<ul style="list-style-type: none"> <li>integrated switch</li> </ul>	Yes
PROFINET IO Device	
Services	

— IRT with the option "high flexibility"	Yes	
— Prioritized startup	Yes	
<b>Interface types</b>		
M12 port		
• Autonegotiation	Yes	
• Autocrossing	Yes	
• Transmission rate, max.	100 Mbit/s	
<b>Protocols</b>		
Supports protocol for PROFINET IO	Yes	
PROFINET CBA	No	
PROFIsafe	No	
<b>Redundancy mode</b>		
Media redundancy		
— MRP	Yes	
<b>Open IE communication</b>		
• TCP/IP	No	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
• ping	Yes	
• ARP	Yes	
<b>Interrupts/diagnostics/status information</b>		
Diagnostics function	Yes	
<b>Alarms</b>		
• Diagnostic alarm	Yes	
<b>Diagnoses</b>		
• 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	
<b>Potential separation</b>		
between the load voltages	Yes	
between load voltage and all other switching components	No	
between Ethernet and electronics	Yes	
<b>Potential separation channels</b>		
• between the channels	No	
<b>Isolation</b>		
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	
<b>Degree and class of protection</b>		
IP degree of protection	IP65/67	
<b>Standards, approvals, certificates</b>		
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	
<b>Connection method</b>		
Design of electrical connection	4/5-pin M12 circular connectors	
<b>Dimensions</b>		
Width	30 mm	
Height	200 mm	
Depth	49 mm	
<b>Weights</b>		
Weight, approx.	550 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
eClass	14	27-24-26-04

eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

**Approvals / Certificates**

**General Product Approval**

[Manufacturer Declaration](#)

[Miscellaneous](#)



**General Product Approval**

**EMV**

**For use in hazardous locations**



[China RoHS](#)



**For use in hazardous locations**

**Maritime application**

[CCC-Ex](#)



[Miscellaneous](#)

[CCC-Ex](#)



**Maritime application**



[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

**Industrial Communication**

[PROFINET](#)

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