



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"> Short-circuit protection 	Yes; Electronic
<ul style="list-style-type: none"> Output current, max. 	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"> 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.	8
Input voltage	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> for signal "0" 	-3 to +5V
<ul style="list-style-type: none"> for signal "1" 	+11 to +30V
Input current	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> unshielded, max. 	30 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> 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"> • M12 port • integrated switch 	Yes Yes
Interface types	
M12 port	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> — IRT with the option "high flexibility" — Prioritized startup 	Yes Yes
Redundancy mode	
Media redundancy	
<ul style="list-style-type: none"> — MRP 	Yes
Open IE communication	
<ul style="list-style-type: none"> • TCP/IP • SNMP • DCP • LLDP • ping • ARP 	No Yes Yes Yes Yes Yes
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
<ul style="list-style-type: none"> • Diagnostic alarm 	Yes
Diagnoses	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • between the channels 	No
Isolation	
tested with	
<ul style="list-style-type: none"> • 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
connection method	
Design of electrical connection	4/5-pin M12 circular connectors
Dimensions	
Width	30 mm
Height	200 mm
Depth	49 mm
Weights	
Weight, approx.	550 g

