

SIMATIC DP, ET 200ECO PN, 8 DIO 24 V DC/1.3 A; 8xM12, 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
Load voltage 2L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	Yes
Input current	
Current consumption, typ.	100 mA
from supply voltage 1L+, max.	4 A
from load voltage 2L+, 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 8

- in groups of 4

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

Digital outputs

Number of digital outputs 8

- in groups of 4

Short-circuit protection Yes; Electronic

- Response threshold, typ. 1.8 A

Limitation of inductive shutdown voltage to Typ. (L1+, L2+) -47 V

Controlling a digital input Yes

Switching capacity of the outputs

- on lamp load, max. 5 W

Output current

- for signal "1" rated value 1.3 A; Maximum
- for signal "0" residual current, max. 1.5 mA

Parallel switching of two outputs

- for uprating No
- for redundant control of a load Yes

Switching frequency

- with resistive load, max. 100 Hz

• with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs (per group)	
all mounting positions	
— up to 60 °C, max.	3.9 A
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	
• integrated switch	Yes
• M12 port	Yes
Interface types	
M12 port	
• Transmission procedure	100BASE-TX
• 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
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
Diagnostic messages	
• Diagnostic information readable	Yes
• Monitoring the supply voltage	Yes; Green "ON" LED
• Wire-break in actuator cable	Yes
• Wire-break in signal transmitter cable	Yes
• Short-circuit	Yes
• Short-circuit encoder supply	Yes
• 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	
Suitable for safety-related tripping of standard modules	Yes
Highest safety class achievable for safety-related tripping of standard modules	
• Performance level according to ISO 13849-1	PL d
• Category according to ISO 13849-1	Cat. 3
• SILCL according to IEC 62061	SILCL 2
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

last modified:

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