

SIMATIC DP, ET 200ECO PN, 8 DI 24V DC; 4 X M12, DOUBLE-ASSIGNMENT, DEGREE OF PROTECTION IP67;



General information	
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0306H
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, typ.	100 mA
Encoder supply	
Number of outputs	4
Short-circuit protection	Yes; Electronic
Output current	
• Rated value	100 mA; per output
Power loss	
Power loss, typ.	5.5 W

Digital inputs	
Number of digital inputs	8
• 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	
• Type of input voltage	DC
• 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
PROFINET IO	
• Autocrossing	Yes
• automatic detection of transmission rate	Yes
• Transmission rate, max.	100 Mbit/s
• integrated switch	Yes
PROFINET IO Device	
— IRT with the option "high flexibility"	Yes
— Prioritized startup	Yes
Protocols	
Supports protocol for PROFINET IO	Yes
PROFINET CBA	No
PROFIsafe	No

Protocols (Ethernet)	
• TCP/IP	No
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
• ping	Yes
• ARP	Yes

  

Interrupts/diagnostics/status information	
Status indicator	Yes; Green LED
Diagnostic functions	Yes

  

Alarms	
• Diagnostic alarm	Yes

  

Diagnostic messages	
• 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 digital inputs	
• between the channels	No

  

Isolation	
tested with	
• 24 V DC circuits	707 V DC (type test)
• Interface	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 (without packaging)	550 g

last modified:

03/10/2017