

SIMATIC DP, ET 200ECO PN, IO-Link master, 4IO-L+8DI+4DO 24 V DC/1.3A 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
Load voltage 2L+	
<ul style="list-style-type: none"> <li>Rated value (DC)</li> </ul>	24 V
<ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul>	Yes
Input current	
Current consumption, typ.	200 mA
from supply voltage 1L+, max.	4 A
from load voltage 2L+, max.	4 A
Encoder supply	
Number of outputs	6
24 V encoder supply	

- Short-circuit protection Yes
- Output current, max. 200 mA; 100 mA per output to X5-X6

#### Power loss

Power loss, typ. 8 W

#### Digital inputs

Number of digital inputs 8

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 "0", max. (permissible quiescent current) 1.5 mA
- 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 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
<b>Total current of the outputs (per group)</b>	
all mounting positions	
— up to 60 °C, max.	3.9 A
<b>Cable length</b>	
• unshielded, max.	30 m
<b>IO-Link</b>	
Number of ports	4
• of which simultaneously controllable	4
IO-Link protocol 1.0	Yes
IO-Link protocol 1.1	No
Transmission rate	4.8 kBd (COM1); 38.4 kBd (COM2)
Size of process data, input per port	32 byte
Size of process data, input per module	32 byte
Size of process data, output per port	32 byte
Size of process data, output per module	32 byte
Cable length unshielded, max.	20 m
<b>Operating modes</b>	
• IO-Link	Yes
• DI	Yes
• DQ	Yes
<b>Connection of IO-Link devices</b>	
• Port type A	Yes
• via three-wire connection	Yes
<b>Interfaces</b>	
Transmission procedure	100BASE-TX
Number of PROFINET interfaces	1
<b>1. Interface</b>	
<b>Interface types</b>	
• integrated switch	Yes
• M12 port	Yes
<b>Interface types</b>	
<b>M12 port</b>	
• 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>PROFINET IO Device</b>	
<b>Services</b>	
— IRT with the option "high flexibility"	Yes
<b>Redundancy mode</b>	
<b>Media redundancy</b>	
— 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>Diagnostic messages</b>	
• 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
<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>	
<b>tested with</b>	
• 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>Dimensions</b>	

Width	60 mm
Height	175 mm
Depth	49 mm

#### Weights

Weight, approx.	910 g
<b>last modified:</b>	06/09/2020