



SIMATIC DP, ET 200eco PN, IO-Link master, 4IO-L, 4xM12, 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
Load voltage 2L+	
<ul style="list-style-type: none"> Rated value (DC) 	24 V
<ul style="list-style-type: none"> Reverse polarity protection 	Yes; against destruction; load increasing
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	4
24 V encoder supply	
<ul style="list-style-type: none"> Short-circuit protection 	Yes; per channel, electronic
<ul style="list-style-type: none"> Output current, max. 	500 mA; Per channel
Power loss	
Power loss, typ.	4.8 W
IO-Link	
Number of ports	4
<ul style="list-style-type: none"> of which simultaneously controllable 	4
IO-Link protocol 1.0	Yes
IO-Link protocol 1.1	Yes
Transmission rate	4.8 kBaud (COM1); 38.4 kBaud (COM2), 230 kBaud (COM3)
Size of process data, input per port	32 byte
Size of process data, input per module	128 bytes + 4 bytes PQI
Size of process data, output per port	32 byte
Size of process data, output per module	128 byte
Memory size for device parameter	2 kbyte; for each port
Master backup	Possible with function block IO_LINK_MASTER
Configuration without S7-PCT	Possible; autostart/manual function
Cable length unshielded, max.	20 m
Operating modes	
<ul style="list-style-type: none"> IO-Link 	Yes
<ul style="list-style-type: none"> DI 	Yes
<ul style="list-style-type: none"> DQ 	Yes; max. 100 mA

Connection of IO-Link devices	
<ul style="list-style-type: none"> • Port type A • Port type B 	<p>Yes; via 3-core cable</p> <p>Yes; Additional device supply: max. 2 A per port, max. 4 A per module</p>
Interfaces	
Transmission procedure	100BASE-TX
Number of PROFINET interfaces	1
1. Interface	
Interface types	
<ul style="list-style-type: none"> • M12 port • integrated switch 	<p>Yes</p> <p>Yes</p>
Interface types	
M12 port	
<ul style="list-style-type: none"> • Autonegotiation • Autocrossing • Transmission rate, max. 	<p>Yes</p> <p>Yes</p> <p>100 Mbit/s</p>
Protocols	
Supports protocol for PROFINET IO	Yes
PROFINET CBA	No
PROFIsafe	No
EtherNet/IP	No
PROFINET IO Device	
Services	
— IRT with the option "high flexibility"	Yes
Redundancy mode	
Media redundancy	
— MRP	Yes
Open IE communication	
<ul style="list-style-type: none"> • TCP/IP • SNMP • DCP • LLDP • ping • ARP 	<p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>
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 • Short-circuit • Group error 	<p>Yes</p> <p>Yes; green "ON" LED</p> <p>Yes; Device supply to M</p> <p>Yes; Red/yellow "SF/MT" LED</p>
Potential separation	
between the load voltages	Yes
between load voltage and all other switching components	No
between Ethernet and electronics	Yes
Isolation	
tested with	
<ul style="list-style-type: none"> • 24 V DC circuits • Test voltage for interface, rms value [Vrms] 	<p>707 V DC (type test)</p> <p>1 500 V; According to IEEE 802.3</p>
Degree and class of protection	
IP degree of protection	IP65/67
Standards, approvals, certificates	
Suitable for safety-related tripping of standard modules	No
connection method / header	
Design of electrical connection	3/5-pin M12 round connectors
Dimensions	
Width	30 mm

Height	200 mm
Depth	49 mm
Weights	
Weight, approx.	550 g
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