



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"> <li>Rated value (DC)</li> </ul>	24 V
<ul style="list-style-type: none"> <li>Reverse polarity protection</li> </ul>	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"> <li>Short-circuit protection</li> </ul>	Yes; per channel, electronic
<ul style="list-style-type: none"> <li>Output current, max.</li> </ul>	500 mA; Per channel
Power loss	
Power loss, typ.	4.8 W
IO-Link	
Number of ports	4
<ul style="list-style-type: none"> <li>of which simultaneously controllable</li> </ul>	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"> <li>IO-Link</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DI</li> </ul>	Yes
<ul style="list-style-type: none"> <li>DQ</li> </ul>	Yes; max. 100 mA

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

Height	200 mm
Depth	49 mm
<b>Weights</b>	
Weight, approx.	550 g
<b>last modified:</b>	9/27/2021 