



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+                               |                                                       |
| • Rated value (DC)                             | 24 V                                                  |
| • 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                            |                                                       |
| • Short-circuit protection                     | Yes; per channel, electronic                          |
| • Output current, max.                         | 500 mA; Per channel                                   |
| Power loss                                     |                                                       |
| Power loss, typ.                               | 4.8 W                                                 |
| IO-Link                                        |                                                       |
| Number of ports                                | 4                                                     |
| • 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                                |                                                       |
| • IO-Link                                      | Yes                                                   |
| • DI                                           | Yes                                                   |
| • DQ                                           | Yes; max. 100 mA                                      |
| Connection of IO-Link devices                  |                                                       |

|                                                          |                                                                       |
|----------------------------------------------------------|-----------------------------------------------------------------------|
| • Port type A                                            | Yes; via 3-core cable                                                 |
| • Port type B                                            | Yes; Additional device supply: max. 2 A per port, max. 4 A per module |
| <b>Interfaces</b>                                        |                                                                       |
| Transmission procedure                                   | 100BASE-TX                                                            |
| Number of PROFINET interfaces                            | 1                                                                     |
| <b>1. Interface</b>                                      |                                                                       |
| <b>Interface types</b>                                   |                                                                       |
| • M12 port                                               | Yes                                                                   |
| • integrated switch                                      | 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                                                                    |
| 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>                             |                                                                       |
| • 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>Diagnoses</b>                                         |                                                                       |
| • Diagnostic information readable                        | Yes                                                                   |
| • Monitoring the supply voltage                          | Yes; green "ON" LED                                                   |
| • Short-circuit                                          | Yes; Device supply to M                                               |
| • 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>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>Standards, approvals, certificates</b>                |                                                                       |
| Suitable for safety-related tripping of standard modules | No                                                                    |
| <b>connection method</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>                                           |                                                                       |

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Weight, approx.

550 g

**last modified:**

8/16/2023 

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