



Figure similar

SIMATIC DP, Electronics module f. ET200ECO, 4/8 F-DI PROFIsafe 24 V DC up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849)

| Supply voltage                                                  |                                    |
|-----------------------------------------------------------------|------------------------------------|
| Rated value (DC)                                                | 24 V                               |
| Reverse polarity protection                                     | No                                 |
| Input current                                                   |                                    |
| from supply voltage 1L+, max.                                   | 100 mA                             |
| Encoder supply                                                  |                                    |
| Number of outputs                                               | 2                                  |
| Type of output voltage                                          | min. L+ (-1.5 V)                   |
| Short-circuit protection                                        | Yes                                |
| Output current                                                  |                                    |
| • Rated value                                                   | 300 mA                             |
| Power loss                                                      |                                    |
| Power loss, typ.                                                | 3 W                                |
| Digital inputs                                                  |                                    |
| Number of digital inputs                                        | 8; 8 single channel, 4 two-channel |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes                                |
| Number of simultaneously controllable inputs                    |                                    |
| all mounting positions                                          |                                    |
| — up to 55 °C, max.                                             | 8                                  |
| Input voltage                                                   |                                    |
| • Rated value (DC)                                              | 24 V                               |
| • for signal "0"                                                | -30 to +5 V                        |
| • for signal "1"                                                | +15 to +30 V                       |
| Input current                                                   |                                    |
| • for signal "1", typ.                                          | 3.7 mA                             |
| Cable length                                                    |                                    |
| • unshielded, max.                                              | 30 m                               |
| Encoder                                                         |                                    |
| Connectable encoders                                            |                                    |
| • 2-wire sensor                                                 | No                                 |
| Interfaces                                                      |                                    |
| PROFIBUS DP                                                     |                                    |
| • Transmission rate, max.                                       | 12 Mbit/s                          |
| Protocols                                                       |                                    |
| PROFIBUS DP                                                     | Yes                                |
| Interrupts/diagnostics/status information                       |                                    |
| Diagnoses                                                       |                                    |
| • Diagnostic information readable                               | Yes                                |

|                                                       |                                                                                               |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Diagnostics indication LED</b>                     |                                                                                               |
| • Group error SF (red)                                | Yes                                                                                           |
| • Status indicator digital input (green)              | Yes                                                                                           |
| • Channel fault indicator F (red)                     | No                                                                                            |
| <b>Potential separation</b>                           |                                                                                               |
| between PROFIBUS DP and all other circuit components  | Yes                                                                                           |
| <b>Potential separation digital inputs</b>            |                                                                                               |
| • between the channels                                | No                                                                                            |
| <b>Permissible potential difference</b>               |                                                                                               |
| between different circuits                            | 75 V DC/60 V AC                                                                               |
| <b>Isolation</b>                                      |                                                                                               |
| Isolation tested with                                 | 500V AC for 1 minute                                                                          |
| <b>Degree and class of protection</b>                 |                                                                                               |
| IP degree of protection                               | IP65/67                                                                                       |
| <b>Standards, approvals, certificates</b>             |                                                                                               |
| <b>Highest safety class achievable in safety mode</b> |                                                                                               |
| • acc. to EN 954                                      | 4                                                                                             |
| • Performance level according to ISO 13849-1          | e                                                                                             |
| • SIL acc. to IEC 61508                               | SIL 2 (single-channel), SIL 3 (two-channel)                                                   |
| <b>connection method / header</b>                     |                                                                                               |
| Design of electrical connection                       | 4/5-pin M12 circular connectors                                                               |
| <b>Dimensions</b>                                     |                                                                                               |
| Width                                                 | 60 mm                                                                                         |
| Height                                                | 210 mm                                                                                        |
| Depth                                                 | 28 mm                                                                                         |
| <b>Weights</b>                                        |                                                                                               |
| Weight, approx.                                       | 220 g                                                                                         |
| <b>last modified:</b>                                 | 7/28/2021  |