

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 2 DO HIGH  
FEATURE 24V DC, 15 MM WIDTH DIAGNOSIS F. SHORT-  
CIRCUIT AND OPEN-CIRCUIT, FIRST-UP SIGNAL WITH LED SF  
(GROUP FAULT), 5 PIECES PER PACKAGING UNIT

| Supply voltage                              |                                                              |
|---------------------------------------------|--------------------------------------------------------------|
| Reverse voltage protection                  | Yes; when using the same load voltage as on the power module |
| Load voltage L+                             |                                                              |
| • Rated value (DC)                          | 24 V; From power module                                      |
| • Reverse polarity protection               | Yes                                                          |
| Input current                               |                                                              |
| from load voltage L+ (without load), max.   | 5 mA; Per channel                                            |
| from backplane bus 3.3 V DC, max.           | 10 mA                                                        |
| Power loss                                  |                                                              |
| Power loss, typ.                            | 0.4 W                                                        |
| Address area                                |                                                              |
| Address space per module                    |                                                              |
| • with packing                              | 2 bit                                                        |
| • without packing                           | 1 byte                                                       |
| Digital outputs                             |                                                              |
| Number of digital outputs                   | 2                                                            |
| Short-circuit protection                    |                                                              |
| • Response threshold, typ.                  | 1.5 A                                                        |
| Limitation of inductive shutdown voltage to | -55 to -60 V                                                 |
| Controlling a digital input                 | Yes                                                          |
| Switching capacity of the outputs           |                                                              |
| • on lamp load, max.                        | 2.5 W                                                        |
| Load resistance range                       |                                                              |
| • lower limit                               | 48 $\Omega$                                                  |
| • upper limit                               | 3 400 $\Omega$                                               |
| Output voltage                              |                                                              |
| • for signal "1", min.                      | L+ (-1 V)                                                    |
| Output current                              |                                                              |
| • for signal "1" rated value                | 0.5 A                                                        |
| • for signal "0" residual current, max.     | 0.3 mA                                                       |
| Output delay with resistive load            |                                                              |
| • "0" to "1", max.                          | 100 $\mu$ s                                                  |

|                                                                 |                         |
|-----------------------------------------------------------------|-------------------------|
| • "1" to "0", max.                                              | 400 µs                  |
| Parallel switching of two outputs                               |                         |
| • for uprating                                                  | No                      |
| • for redundant control of a load                               | Yes; per module         |
| Switching frequency                                             |                         |
| • with resistive load, max.                                     | 100 Hz                  |
| • with inductive load, max.                                     | 2 Hz                    |
| • on lamp load, max.                                            | 10 Hz                   |
| Cable length                                                    |                         |
| • shielded, max.                                                | 1 000 m                 |
| • unshielded, max.                                              | 600 m                   |
| Isochronous mode                                                |                         |
| Isochronous operation (application synchronized up to terminal) | Yes                     |
| Interrupts/diagnostics/status information                       |                         |
| Diagnostic functions                                            | Yes; Can be read out    |
| Substitute values connectable                                   | Yes                     |
| Diagnostic messages                                             |                         |
| • Wire-break                                                    | Yes; channel by channel |
| • Short-circuit                                                 | Yes; channel by channel |
| Diagnostics indication LED                                      |                         |
| • Group error SF (red)                                          | Yes                     |
| • Status indicator digital output (green)                       | Yes                     |
| Parameter                                                       |                         |
| Remark                                                          | 3 byte                  |
| Diagnostics wire break                                          | Disable / enable        |
| Diagnostics short-circuit                                       | Disable / enable        |
| Potential separation                                            |                         |
| Potential separation digital outputs                            |                         |
| • between the channels                                          | No                      |
| • between the channels and backplane bus                        | Yes                     |
| Permissible potential difference                                |                         |
| between different circuits                                      | 75 V DC/60 V AC         |
| Isolation                                                       |                         |
| Isolation tested with                                           | 500 V DC                |
| Dimensions                                                      |                         |
| Width                                                           | 15 mm                   |
| Height                                                          | 81 mm                   |
| Depth                                                           | 52 mm                   |

## Weights

Weight, approx.

40 g

**last modified:**

08/12/2017