

SIMATIC DP, 5 ELECTRON. MODULES FOR ET 200S, 4 DI HIGH FEATURE 24V DC, 15 MM WIDTH WITH PARAM. F. INPUT DELAY DIAGNOSIS F. ENCODER SHORT- CIRCUIT W. LED SF (GROUP FAULT) 5 PIECES PER PACKAGING UNIT

Supply voltage

| | |
|---|------------------------|
| Rated value (DC) | |
| <ul style="list-style-type: none"> • 24 V DC | Yes; From power module |
| Reverse polarity protection | Yes |

Input current

| | |
|-----------------------------------|----------------------|
| from supply voltage L+, max. | Dependent on encoder |
| from backplane bus 3.3 V DC, max. | 10 mA |

Encoder supply

| | |
|--------------------------|------------------------------|
| Type of output voltage | min. L+ (-0.5 V), under load |
| Short-circuit protection | Yes; Electronic |

Output current

| | |
|--|--------|
| <ul style="list-style-type: none"> • Rated value | 500 mA |
| <ul style="list-style-type: none"> • permissible range, lower limit | 0 mA |
| <ul style="list-style-type: none"> • permissible range, upper limit | 500 mA |

Power loss

| | |
|------------------|-------|
| Power loss, typ. | 0.7 W |
|------------------|-------|

Address area

| | |
|--|--------|
| Address space per module | |
| <ul style="list-style-type: none"> • Address space per module, max. | 1 byte |
| <ul style="list-style-type: none"> • with packing | 4 bit |

Digital inputs

| | |
|---|-----|
| Number of digital inputs | 4 |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes |

Input voltage

| | |
|--|-------------|
| <ul style="list-style-type: none"> • Rated value (DC) | 24 V |
| <ul style="list-style-type: none"> • for signal "0" | -30 to +5V |
| <ul style="list-style-type: none"> • for signal "1" | +11 to +30V |

Input current

| | |
|--|------|
| <ul style="list-style-type: none"> • for signal "1", typ. | 8 mA |
|--|------|

Input delay (for rated value of input voltage)

| | |
|---------------------|--|
| for standard inputs | |
|---------------------|--|

| | |
|---|---|
| — parameterizable | Yes; 0.1 / 0.5 / 3 / 15 ms |
| — at "0" to "1", min. | 0.05 ms |
| — at "0" to "1", max. | 15.15 ms |
| — at "1" to "0", min. | 0.05 ms |
| — at "1" to "0", max. | 15.15 ms |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| Encoder | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| — permissible quiescent current (2-wire sensor), max. | 1.5 mA |
| Isochronous mode | |
| Isochronous operation (application synchronized up to terminal) | Yes |
| Interrupts/diagnostics/status information | |
| Alarms | |
| • Hardware interrupt | Yes; Parameterizable |
| Diagnostic messages | |
| • Diagnostic information readable | Yes |
| • Short-circuit | Yes; Short-circuit of outputs to ground; module by module |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| • Status indicator digital input (green) | Yes |
| Parameter | |
| Remark | 3 byte |
| Diagnostics short-circuit | Disable / enable |
| Potential separation | |
| Potential separation digital inputs | |
| • 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. | 35 g |
| last modified: | 08/12/2019 |