

*** SPARE PART*** SIMATIC DP, DISTRIBUTED I/O ET 200R:
 WELDING MODULE IP65, METAL HOUSING, 8 DI + 8 DI/DO
 CONFIGURABLE, DC 24V, 5 PIN, 8 X M12, 2 X M23 (DP, PS,
 ANALOG)



Figure similar

| Supply voltage | |
|---|--|
| Rated value (DC) | 24 V; -15 / +20 % |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes; Also electronic protection |
| Encoder supply | |
| Number of outputs | 8 |
| Output current | |
| • Rated value | 0.5 A; 8 channels each |
| Digital inputs | |
| Number of digital inputs | 8; 16 process channels, 8 DI fixed, 8 DI/DO can be set in parameters |
| Input characteristic curve in accordance with IEC 61131, type 2 | Yes |
| Input voltage | |
| • Type of input voltage | DC |
| • for signal "0" | -3 to +5V |

| | |
|---|--|
| • for signal "1" | +15 to +30V |
| Input current | |
| • for signal "1", typ. | 7 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — at "0" to "1", max. | 3 ms; Typical |
| Cable length | |
| • unshielded, max. | 10 m; for signal lines |
| Digital outputs | |
| Number of digital outputs | 8; 16 process channels, 8 DI fixed, 8 DI/DO can be set in parameters |
| Short-circuit protection | Yes |
| Output current | |
| • for signal "1" permissible range for 0 to 55 °C, max. | 0.5 A |
| Switching frequency | |
| • with resistive load, max. | 100 Hz |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 55 °C, max. | 2 A |
| Cable length | |
| • unshielded, max. | 10 m |
| Encoder | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| Interfaces | |
| PROFIBUS DP | |
| Cable length | |
| — Cable length, max. | 30 m; Per line, shielded |
| Protocols | |
| PROFIBUS DP | Yes |
| Interrupts/diagnostics/status information | |
| Diagnostic functions | Yes; Diagnostic frames |
| Diagnostic messages | |
| • Short-circuit | Yes; (Digital outputs) per group; X0 to X1 or X2 to X3 |
| • Short-circuit encoder supply | Yes; per group X0 to X3 or X4 to X7 |
| • missing load voltage | Yes |
| Diagnostics indication LED | |
| • Description | Channel 01, Channel 02 |
| • Bus fault BF (red) | Yes |

- | | |
|---|---|
| • Rated load voltage PWR (green) | Yes; 24 V DC (load voltage) US2 |
| • Group error SF (red) | Yes |
| • Status indicator digital input (green) | Yes |
| • Status indicator digital output (green) | Yes |
| • Monitoring 24 V voltage supply ON (green) | Yes; (Logic circuits/encoder voltage) US1 |

Degree and class of protection

| | |
|---------------------------------------|------|
| Degree of protection acc. to EN 60529 | IP65 |
|---------------------------------------|------|

Standards, approvals, certificates

| | |
|--------------|-----|
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |

Ambient conditions

| | |
|--------------------------------------|-------|
| Ambient temperature during operation | |
| • max. | 55 °C |

Connection method

| | |
|--|---|
| Design of electrical connection for the inputs and outputs | 8x 5-pin M12x1 circular connector |
| Bus cables | Bus and voltage: X01/X02: 2x M23 (17-pin) |

Mechanics/material

| | |
|-------------------|-------------------|
| Design of housing | Die-cast aluminum |
|-------------------|-------------------|

Dimensions

| | |
|--------|--|
| Width | 54 mm |
| Height | 55 mm; 64 mm incl. overall plug height |
| Depth | 150 mm |

Weights

| | |
|-----------------|-------|
| Weight, approx. | 780 g |
|-----------------|-------|

| | |
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| last modified: | 03/11/2017 |
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