




LOGO! DM8 12/24R expansion module, PS/I/O: 12, 24V/12V/24V/relay, 2 MW, 4 DI/4 DO for LOGO! 8

| Installation type/mounting | |
|--|---|
| Mounting | on 35 mm DIN rail, 2 spacing units wide |
| Supply voltage | |
| Rated value (DC) | |
| • 12 V DC | Yes |
| • 24 V DC | Yes |
| permissible range, lower limit (DC) | 10.8 V |
| permissible range, upper limit (DC) | 28.8 V |
| Digital inputs | |
| Number of digital inputs | 4 |
| Input voltage | |
| • Type of input voltage | DC |
| • for signal "0" | < 5 V DC |
| • for signal "1" | > 8.5 V |
| Input current | |
| • for signal "0", max. (permissible quiescent current) | 0.88 mA |
| • for signal "1", typ. | 1.5 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — at "0" to "1", max. | 1.5 ms |
| — at "1" to "0", max. | 1.5 ms |
| Digital outputs | |
| Number of digital outputs | 4; Relays |
| Short-circuit protection | No |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| • on lamp load, max. | 1 000 W |
| Output current | |
| • for signal "1" rated value | 5 A |
| • for signal "1" minimum load current | 100 mA |
| Parallel switching of two outputs | |
| • for uprating | No |
| Switching frequency | |
| • with resistive load, max. | 2 Hz |
| • with inductive load, max. | 0.5 Hz |
| • mechanical, max. | 10 Hz |
| Relay outputs | |

| | |
|--|---|
| Switching capacity of contacts | |
| — with inductive load, max. | 3 A |
| — with resistive load, max. | 5 A |
| EMC | |
| Emission of radio interference acc. to EN 55 011 | |
| • Limit class B, for use in residential areas | Yes |
| Degree and class of protection | |
| IP degree of protection | IP20 |
| Standards, approvals, certificates | |
| CE mark | Yes |
| CSA approval | Yes |
| UL approval | Yes |
| FM approval | Yes |
| developed in accordance with IEC 61131 | Yes |
| Marine approval | Yes |
| Ambient conditions | |
| Ambient temperature during operation | |
| • min. | 0 °C; ES03 and higher: -20 °C |
| • max. | 55 °C |
| Dimensions | |
| Width | 35.5 mm |
| Height | 90 mm |
| Depth | 58 mm |
| last modified: | 3/12/2021  |