

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                   |                               |
| Degree of protection acc. to EN 60529            |                               |
| • IP20   | Yes                           |
| 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      |
| <b>last modified:</b> | 12/14/2019 |