




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

| Installation type/mounting                             |   |
|--|---|
| Mounting   | on 35 mm DIN rail, 2 spacing units wide |
| Supply voltage   |   |
| Rated value (DC)                                       |   |
| • 24 V DC  | Yes                                     |
| permissible range, lower limit (DC)                    | 20.4 V                                  |
| permissible range, upper limit (DC)                    | 28.8 V                                  |
| Rated value (AC)                                       |   |
| • 24 V AC  | Yes                                     |
| Line frequency   |   |
| • permissible range, lower limit                       | 47 Hz                                   |
| • permissible range, upper limit                       | 63 Hz                                   |
| Digital inputs   |   |
| Number of digital inputs                               | 4                                       |
| Input voltage  |   |
| • Type of input voltage                                | AC/DC                                   |
| • for signal "0"                                       | < 5 V AC/DC                             |
| • for signal "1"                                       | > 12 V AC/DC                            |
| Input current  |   |
| • for signal "0", max. (permissible quiescent current) | 1.1 mA                                  |
| • for signal "1", typ.                                 | 2.63 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.                                  | 15 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   |
| <b>Relay outputs</b>                             |   |
| Switching capacity of contacts                   |   |
| — with inductive load, max.                      | 3 A   |
| — with resistive load, max.                      | 5 A   |
| <b>EMC</b>                                       |   |
| Emission of radio interference acc. to EN 55 011 |   |
| • Limit class B, for use in residential areas    | Yes   |
| <b>Degree and class of protection</b>            |   |
| IP degree of protection                          | IP20  |
| <b>Standards, approvals, certificates</b>        |   |
| CE mark  | Yes   |
| CSA approval                                     | Yes   |
| UL approval                                      | Yes   |
| FM approval                                      | Yes   |
| developed in accordance with IEC 61131           | Yes   |
| according to VDE 0631                            | Yes   |
| Marine approval                                  | Yes   |
| <b>Ambient conditions</b>                        |   |
| Ambient temperature during operation             |   |
| • min.   | 0 °C; ES03 and higher: -20 °C   |
| • max.   | 55 °C   |
| <b>Dimensions</b>                                |   |
| Width  | 35.5 mm   |
| Height   | 90 mm   |
| Depth  | 58 mm   |
| <b>last modified:</b>                            | 3/12/2021  |