



LOGO! DM8 12/24R, EXP. MODULE PU//O: 12,  
24V/12V/24V/RELAIS, 2TE, 4 DI/4 DO FOR LOGO! 8

| Installation type/mounting   |   |
|--|---|
| Mounting   | on 35 mm DIN rail, 2 spacing units wide |
| Supply voltage   |   |
| 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  |   |
| <ul style="list-style-type: none"> <li>Type of input voltage</li> </ul>                                | DC                                      |
| <ul style="list-style-type: none"> <li>for signal "0"</li> </ul>                                       | < 5 V DC                                |
| Input current  |   |
| <ul style="list-style-type: none"> <li>for signal "0", max. (permissible quiescent current)</li> </ul> | 0.88 mA                                 |
| <ul style="list-style-type: none"> <li>for signal "1", typ.</li> </ul>                                 | 4.2 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  |   |
| <ul style="list-style-type: none"> <li>Lamp load, max.</li> </ul>                                      | 1 000 W                                 |
| Output current   |   |

|  |            |
|--|------------|
| • for signal "1" rated value                                       | 5 A        |
| <b>Parallel switching of 2 outputs</b>                             |            |
| • for uprating   | No         |
| <b>Switching frequency</b>   |            |
| • with resistive load, max.  | 2 Hz       |
| • with inductive load, max.  | 0.5 Hz     |
| • mechanical, max.   | 10 Hz      |
| <b>Relay outputs</b>   |            |
| <b>Switching capacity of contacts</b>                              |            |
| — with inductive load, max.  | 3 A        |
| — with resistive load, max.  | 5 A        |
| <b>EMC</b>   |            |
| <b>Emission of radio interference acc. to EN 55 011</b>            |            |
| • Emission of radio interference acc. to EN 55 011 (limit class B) | Yes        |
| <b>Degree and class of protection</b>                              |            |
| IP20   | Yes        |
| <b>Standards, approvals, certificates</b>                          |            |
| CSA approval   | Yes        |
| UL approval  | Yes        |
| FM approval  | Yes        |
| developed in accordance with IEC 61131                             | Yes        |
| <b>Marine approval</b>   |            |
| • Marine approval  | Yes        |
| <b>Ambient conditions</b>  |            |
| <b>Operating temperature</b>                                       |            |
| • min.   | 0 °C       |
| • max.   | 55 °C      |
| <b>Dimensions</b>  |            |
| Width  | 35.5 mm    |
| Height   | 90 mm      |
| Depth  | 58 mm      |
| <b>last modified:</b>  | 21.08.2014 |