

LOGO! DM16 24R, EXP. MODULE, PU/I/O: 24V DC/24V  
DC/RELAY, 8 DI/8 DO, 4TE



| Installation type/mounting                             |                                         |
|--------------------------------------------------------|-----------------------------------------|
| Mounting                                               | on 35 mm DIN rail, 4 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                                  |
| Digital inputs                                         |                                         |
| Number of digital inputs                               | 8                                       |
| Input voltage                                          |                                         |
| • Type of input voltage                                | DC                                      |
| • for signal "0"                                       | < 5 V DC                                |
| • for signal "1"                                       | > 12 V DC                               |
| Input current                                          |                                         |
| • for signal "0", max. (permissible quiescent current) | 1 mA                                    |
| • for signal "1", typ.                                 | 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    |
| <b>Digital outputs</b>                                  |           |
| Number of digital outputs                               | 8; Relays |
| Short-circuit protection                                | No        |
| Controlling a digital input                             | Yes       |
| <b>Switching capacity of the outputs</b>                |           |
| • on lamp load, max.                                    | 1 000 W   |
| <b>Output current</b>                                   |           |
| • for signal "1" rated value                            | 5 A       |
| <b>Parallel switching of two 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> |           |
| • Limit class B, for use in residential areas           | Yes       |
| <b>Degree and class of protection</b>                   |           |
| <b>Degree of protection acc. to EN 60529</b>            |           |
| • IP20                                                  | Yes       |
| <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>                               |           |
| <b>Ambient temperature during operation</b>             |           |
| • min.                                                  | 0 °C      |
| • max.                                                  | 55 °C     |
| <b>Dimensions</b>                                       |           |

|                       |             |
|-----------------------|-------------|
| Width                 | 72 mm; 4 WU |
| Height                | 90 mm       |
| Depth                 | 53 mm       |
| <b>last modified:</b> | 05/23/2017  |