



LOGO! DM8 24R EXPANSION MODULE, PU/I/O: 24V/24V/RELAY, 2TE 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 frequency 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.                                 | 5.5 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.

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       |
| Parallel switching of 2 outputs   |           |
| • for increased power             | 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 to EN 60529 |     |
| • IP20                           | Yes |

## Standards, approvals, certificates

|                                        |     |
|----------------------------------------|-----|
| CSA approval                           | Yes |
| UL approval                            | Yes |
| FM approval                            | Yes |
| Developed in accordance with IEC 61131 | Yes |
| according to VDE 0631                  | Yes |
| Marine approval                        |     |
| • Marine approval                      | Yes |

## Ambient conditions

|                                  |       |
|----------------------------------|-------|
| Ambient temperature in operation |       |
| • Min.                           | 0 °C  |
| • max.                           | 55 °C |

## Dimensions

|        |         |
|--------|---------|
| Width  | 35.5 mm |
| Height | 90 mm   |

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Depth

58 mm

**last modified:**

24.02.2015