



LOGO! DM8 12/24R, EXP. MODULE PU/I/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

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" < 5V DC
- for signal "1" > 8.5 V

Input current

- for signal "0", max. (permissible quiescent current) 0.88 mA
- for signal "1", typ. 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
<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 2 outputs</b>	
• for increased power	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 to EN 60529</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>Ambient temperature in operation</b>	
• Min.	0 °C
• max.	55 °C
<b>Dimensions</b>	
Width	35.5 mm
Height	90 mm
Depth	58 mm
<b>last modified:</b>	20.04.2015