



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
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Supply voltage

Rated value (DC)

• 12 V DC	Yes
• 24 V DC	Yes

permissible range, lower limit (DC)	10.8 V
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permissible range, upper limit (DC)	28.8 V
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Digital inputs

Number of digital inputs	4
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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
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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 uprating	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 acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
CSA approval	Yes
UL approval	Yes
FM approval	Yes
developed in accordance with IEC 61131	Yes
Marine approval	
• Marine approval	Yes
Ambient conditions	
Ambient temperature during operation	
• min.	0 °C
• max.	55 °C
Dimensions	
Width	35.5 mm
Height	90 mm
Depth	58 mm
last modified:	03.06.2015