



LOGO! DM8 12/24R expansion module, PS/I/O: 12, 24V/12V/24V/relay, 2 MW, 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"	< 5 V DC
• for signal "1"	> 8.5 V
Input current	
• for signal "0", max. (permissible quiescent current)	0.88 mA
• for signal "1", typ.	1.5 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.	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	
• on lamp load, max.	1 000 W
Output current	
• for signal "1" rated value	5 A
• for signal "1" minimum load current	100 mA
Parallel switching of two 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

IP degree of protection

IP20

## Standards, approvals, certificates

CE mark

Yes

CSA approval

Yes

UL approval

Yes

FM approval

Yes

developed in accordance with IEC 61131

Yes

Marine approval

Yes

## Ambient conditions

Ambient temperature during operation

- min.

0 °C; ES03 and higher: -20 °C

- max.

55 °C

## Dimensions

Width

35.5 mm

Height

90 mm

Depth

58 mm

last modified:

3/12/2021 