

LOGO! DM8 24R expansion module, PS/I/O: 24V/24V/relay, 2 MW 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)	Yes
<ul style="list-style-type: none"> <li>• 24 V DC</li> </ul>	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Rated value (AC)	Yes
<ul style="list-style-type: none"> <li>• 24 V AC</li> </ul>	

### Line frequency

<ul style="list-style-type: none"> <li>• permissible range, lower limit</li> </ul>	47 Hz
<ul style="list-style-type: none"> <li>• permissible range, upper limit</li> </ul>	63 Hz

### Digital inputs

Number of digital inputs 4

### Input voltage

<ul style="list-style-type: none"> <li>• Type of input voltage</li> </ul>	AC/DC
<ul style="list-style-type: none"> <li>• for signal "0"</li> </ul>	< 5 V AC/DC
<ul style="list-style-type: none"> <li>• for signal "1"</li> </ul>	> 12 V AC/DC

Input current	
• for signal "0", max. (permissible quiescent current)	1.1 mA
• for signal "1", typ.	2.63 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
• 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	
Degree of protection acc. to EN 60529	
• IP20	Yes
Standards, approvals, certificates	
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

## 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:** 03/03/2020