

LOGO! DM16 24R expansion module, PS/I/O: 24 V DC/24 V DC/relay, 8 DI/8 DO, 4 MW for LOGO! 8



## Installation type/mounting

Mounting on 35 mm DIN rail, 4 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)	No
<ul style="list-style-type: none"> <li>• 24 V AC</li> </ul>	

## Digital inputs

Number of digital inputs	8
Input voltage	
<ul style="list-style-type: none"> <li>• Type of input voltage</li> </ul>	DC
<ul style="list-style-type: none"> <li>• for signal "0"</li> </ul>	< 5 V DC
<ul style="list-style-type: none"> <li>• for signal "1"</li> </ul>	> 12 V DC
Input current	
<ul style="list-style-type: none"> <li>• for signal "0", max. (permissible quiescent current)</li> </ul>	0.85 mA

• for signal "1", typ.	2 mA
<b>Input delay (for rated value of input voltage)</b>	
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	8; 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
• for signal "1" minimum load current	100 mA
<b>Parallel switching of two outputs</b>	
• for uprating	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>	
Switching capacity of contacts	
— with inductive load, max.	3 A
— with resistive load, max.	5 A

### EMC

<b>Emission of radio interference acc. to EN 55 011</b>	
• Limit class B, for use in residential areas	Yes

### Degree and class of protection

<b>Degree of protection acc. to EN 60529</b>	
• 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

<b>Ambient temperature during operation</b>	
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- min.
- max.

0 °C; ES03 and higher: -20 °C

55 °C

#### Dimensions

Width 71.5 mm

Height 90 mm

Depth 58 mm

**last modified:** 08/27/2019