

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

### Switching capacity of the outputs

• on lamp load, max.	1 000 W
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### 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
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### Switching frequency

• with resistive load, max.	2 Hz
• with inductive load, max.	0.5 Hz
• mechanical, max.	10 Hz

### Relay outputs

<b>Switching capacity of contacts</b>	
— 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:** 01/23/2020