



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	
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Line frequency	
<ul style="list-style-type: none"> <li>permissible range, lower limit</li> <li>permissible range, upper limit</li> </ul>	47 Hz 63 Hz
Digital inputs	
Number of digital inputs	4
Input voltage	
<ul style="list-style-type: none"> <li>Type of input voltage</li> <li>for signal "0"</li> <li>for signal "1"</li> </ul>	AC/DC < 5 V AC/DC > 12 V AC/DC
Input current	
<ul style="list-style-type: none"> <li>for signal "0", max. (permissible quiescent current)</li> <li>for signal "1", typ.</li> </ul>	1.1 mA 2.63 mA
Input delay (for rated value of input voltage)	
for standard inputs	
<ul style="list-style-type: none"> <li>at "0" to "1", max.</li> <li>at "1" to "0", max.</li> </ul>	1.5 ms 15 ms
Digital outputs	
Number of digital outputs	4; Relays
Short-circuit protection	No
Controlling a digital input	Yes
Switching capacity of the outputs	
<ul style="list-style-type: none"> <li>on lamp load, max.</li> </ul>	1 000 W
Output current	
<ul style="list-style-type: none"> <li>for signal "1" rated value</li> <li>for signal "1" minimum load current</li> </ul>	5 A 100 mA
Parallel switching of two outputs	
<ul style="list-style-type: none"> <li>for uprating</li> </ul>	No
Switching frequency	
<ul style="list-style-type: none"> <li>with resistive load, max.</li> <li>with inductive load, max.</li> <li>mechanical, max.</li> </ul>	2 Hz 0.5 Hz 10 Hz
Relay outputs	

<b>Switching capacity of contacts</b>	
— with inductive load, max.	3 A
— with resistive load, max.	5 A
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
• Limit class B, for use in residential areas	Yes
<b>Standards, approvals, certificates</b>	
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
<b>Ambient conditions</b>	
Ambient temperature during operation	
• min.	0 °C; ES03 and higher: -20 °C
• max.	55 °C
<b>Dimensions</b>	
Width	35.5 mm
Height	90 mm
Depth	58 mm
<b>last modified:</b>	1/16/2021 