



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)	
• 24 V DC	Yes
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Rated value (AC)	
• 24 V AC	Yes
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Digital inputs	
Number of digital inputs	4
Input voltage	
• Type of input voltage	AC/DC
• for signal "0"	< 5 V AC/DC
• for signal "1"	> 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
<b>Relay outputs</b>	
Switching capacity of contacts	
— 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>Degree and class of protection</b>	
IP degree of protection	IP20
<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