

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"> • 24 V DC 	
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"> • 24 V AC 	

Digital inputs

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

• for signal "1", typ.	2 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.	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
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	
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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: 03/03/2020