



LOGO! DM8 12/24R expansion module, PS/I/O: 12, 24V/12V/24V/relay, 2 MW, 4 DI/4 DO for LOGO! 8

Installation type/mounting	
Mounting	on 35 mm DIN rail, 2 spacing units wide
Supply voltage	
Rated value (DC)	
• 12 V DC	Yes
• 24 V DC	Yes
permissible range, lower limit (DC)	10.8 V
permissible range, upper limit (DC)	28.8 V
Digital inputs	
Number of digital inputs	4
Input voltage	
• Type of input voltage	DC
• for signal "0"	< 5 V DC
• for signal "1"	> 8.5 V
Input current	
• for signal "0", max. (permissible quiescent current)	0.88 mA
• for signal "1", typ.	1.5 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	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
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			
IP degree of protection		IP20	
Standards, approvals, certificates			
CE mark		Yes	
CSA approval		Yes	
UL approval		Yes	
FM approval		Yes	
developed in accordance with IEC 61131		Yes	
Marine approval		Yes	
Ecological footprint			
• environmental product declaration		Yes	
Global warming potential			
— global warming potential, (total) [CO2 eq]		59.1 kg	
— global warming potential, (during production) [CO2 eq]		5.82 kg	
— global warming potential, (during operation) [CO2 eq]		53.6 kg	
— global warming potential, (after end of life cycle) [CO2 eq]		-0.373 kg	
Ambient conditions			
Ambient temperature during operation			
• min.		-20 °C; No condensation	
• max.		55 °C	
Dimensions			
Width		35.5 mm	
Height		90 mm	
Depth		58 mm	
Classifications			
		Version	Classification
	eClass	14	27-24-22-04
	eClass	12	27-24-22-04
	eClass	9.1	27-24-22-04
	eClass	9	27-24-22-04
	eClass	8	27-24-22-04
	eClass	7.1	27-24-22-04
	eClass	6	27-24-22-04
	ETIM	9	EC001419
	ETIM	8	EC001419
	ETIM	7	EC001419
	IDEA	4	3566
	UNSPSC	15	32-15-17-05
Approvals / Certificates			
General Product Approval			
Manufacturer Declaration			
	EG-Konf.		UL
KC		Metrological Approval	
General Product Approval	For use in hazardous locations		Marine / Shipping
	KC		
RCM	CQC	FM	
			
			ABS

Marine / Shipping



[NK / Nippon Kaiji Kyokai](#)

[CCS \(China Classification Society\)](#)



Environment



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