



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	10	EC001419
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](#)

[Miscellaneous](#)

[China RoHS](#)



General Product Approval

For use in hazardous locations



[Metrological Approval](#)



For use in hazardous locations	Maritime application
--------------------------------	----------------------

[EM](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application	Environment
----------------------	-------------

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



last modified: 7/2/2025