



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](#)



[KC](#)

General Product Approval

For use in hazardous locations

[Metrological Approval](#)



[KC](#)



[EM](#)

Maritime application



[NK / Nippon Kaiji Kyokai](#)

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

Maritime application

Environment



last modified:

7/2/2025

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