



LOGO! DM8 24 expansion module, PS/I/O: 24V/24V/trans., 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) | |
| • 24 V DC | Yes |
| permissible range, lower limit (DC) | 20.4 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" | > 12 V DC |
| Input current | |
| • for signal "0", max. (permissible quiescent current) | 0.88 mA |
| • for signal "1", typ. | 2.1 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 |
| Short-circuit protection | Yes |
| Output current | |
| • for signal "1" rated value | 0.3 A |
| Parallel switching of two outputs | |
| • for uprating | No |
| Switching frequency | |
| • with resistive load, max. | 10 Hz |
| • with inductive load, max. | 0.5 Hz |
| 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 |
| according to VDE 0631 | 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