



LOGO! DM16 24 expansion module, PS/I/O: 24 V DC/24 V DC/trans., 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)                                       |                                         |
| • 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                               | 8                                       |
| 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) | 0.85 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                                       |
| 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  | 71.5 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](#)



[Miscellaneous](#)



[KC](#)

##### General Product Approval

##### For use in hazardous locations

[Metrological Approval](#)



[KC](#)



[FM](#)

[FM](#)

##### Marine / Shipping



[NK / Nippon Kaiji Kyokai](#)

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

##### Marine / Shipping

##### Environment



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