



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
<b>Ecological footprint</b>	
• environmental product declaration	Yes
<b>Global warming potential</b>	
— 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

<b>Ambient conditions</b>	
Ambient temperature during operation	
• min.	-20 °C; No condensation
• max.	55 °C

<b>Dimensions</b>	
Width	71.5 mm
Height	90 mm
Depth	58 mm

<b>Classifications</b>			
		<b>Version</b>	<b>Classification</b>
	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**

[Miscellaneous](#)     [Manufacturer Declaration](#)






**General Product Approval**

[Metrological Approval](#)                    [China RoHS](#)     [Manufacturer Declaration](#)

**General Product Approval**     For use in hazardous locations



[CCC-Ex](#)

[FM](#)



[FM](#)

For use in hazardous locations

Maritime application

[CCC-Ex](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application

Environment

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

[KR \(Korean Register of Shipping\)](#)



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