



LOGO! DM8 230R expansion module, PS/I/O: 230V/230V/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)	
• 115 V DC	Yes
• 230 V DC	Yes
permissible range, lower limit (DC)	100 V
permissible range, upper limit (DC)	253 V
Rated value (AC)	
• 115 V AC	Yes
• 230 V AC	Yes
Line frequency	
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Digital inputs	
Number of digital inputs	4
Input voltage	
• Type of input voltage	AC/DC
• for signal "0"	< 40 V AC, < 30 V DC
• for signal "1"	> 79 V AC, > 79 V DC
Input current	
• for signal "0", max. (permissible quiescent current)	0.06 mA; 0.05 mA with AC, 0.06 mA with DC
• for signal "1", typ.	0.13 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", max.	40 ms
— at "1" to "0", max.	75 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; 500 W at 115V AC
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. • mechanical, max.	0.5 Hz 10 Hz																																										
Relay outputs																																											
Switching capacity of contacts																																											
— with inductive load, max. — with resistive load, max.	3 A 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																																										
according to VDE 0631	Yes																																										
Marine approval	Yes																																										
Ecological footprint																																											
• environmental product declaration	Yes																																										
Global warming potential																																											
— global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq]	145 kg 7.49 kg 138 kg -0.491 kg																																										
Ambient conditions																																											
Ambient temperature during operation																																											
• min. • max.	-20 °C; No condensation 55 °C																																										
Dimensions																																											
Width	35.5 mm																																										
Height	90 mm																																										
Depth	58 mm																																										
Classifications																																											
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General Product Approval																																											

[Miscellaneous](#)

[Manufacturer Declaration](#)



[KC](#)

General Product Approval

For use in hazardous locations

[Metrological Approval](#)



[KC](#)



[EM](#)

[EM](#)

Maritime application



[NK / Nippon Kaiji Kyokai](#)

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

Maritime application

Environment



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