

Product data sheet Characteristics

RM35LV14MW

Modular liquid level control relay, 5 A, 1 CO, 24...240 V AC/DC





Main

Range of product	Harmony Control Relays	
Relay type	Level control relay	
Product or component type	Level control relay	
Relay name	RM35L	
Relay monitored parameters	Detection by discrete sensors	
Time delay	Adjustable 0.15 s, +/- 10 % Tt- time delay upon fault	
Switching capacity in VA	1250 VA	
Minimum switching current	10 mA at 5 V DC	
Maximum switching current	5 A AC/DC	
Power consumption	5 VA AC	
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1	
Contacts type and composition	2 C/O	

Complementary

- ·			
Reset time	1000 Ms		
	4000 ms		
Maximum switching voltage	250 V AC/DC		
[Un] rated nominal voltage	24240 V AC/DC 50/60 Hz, non self-powered		
Supply voltage limits	20.4264 V AC/DC		
Operating voltage tolerance	- 15 % + 10 % Un		
Power consumption	1.5 W DC		
Output contacts	1 C/O		
Nominal output current	5 A		
Delay at power up	0.5 s		
Measurement accuracy	+/- 10 % of the full scale value		
	+/- 20 % for the HS range		
Repeat accuracy	+/- 2 % for time delay		
Measurement error	0.5 %/°C with temperature variation		
Sensitivity adjustment	5100 %		
Maximum supply current for sensors	40 mA		
Cable capacitance	10 nF for probe cable		
Marking	CE : EMC 89/336/EEC		
	CE: 73/23/EEC		
Overvoltage category	III conforming to IEC 60664-1		

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherenced as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the documentation is not be used to perform the appropriate and complete risk analysis, evaluation of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Insulation resistance	> 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60255-5	
	> 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60664-1	
	> 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60255-5	
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	> 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60255-5	
	> 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60664-1	
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1	
Operating position	Any position without derating	
Connections - terminals	Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable	
	end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 12) flexible with cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Local signalling	LED (yellow) for relay ON LED (green) for power ON LED (yellow) for timer ON	
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715	
Electrical durability	100000 cycles	
Mechanical durability	30000000 cycles	
Operating rate	<= 360 operations/hour full load	
Safety reliability data	B10d = 170000 MTTFd = 182.6 years	
Width	35 mm	
Control type	Without test button	

Environment

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Immunity to microbreaks	100 Ms DC 90 ms AC	
Electromagnetic compatibility	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2	
Standards	IEC 60255-6	
Product certifications	GOST[RETURN]CSA[RETURN]UL[RETURN]GL[RETURN]C-Tick	
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-2050 °C	
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30	
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric test voltage	2 KV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-1	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	4.8 cm	
Package 1 Width	8 cm	
Package 1 Length	9.7 cm	
Package 1 Weight	133 g	
Unit Type of Package 2	S03	
Number of Units in Package 2	48	
Package 2 Height	30 cm	
Package 2 Width	30 cm	

Package 2 Length	40 cm	
Package 2 Weight	7.131 kg	
Offer Sustainability		
Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	€Yes	

Contractual warranty

Environmental Disclosure

Circularity Profile

Warranty	18 months	

Product Environmental Profile

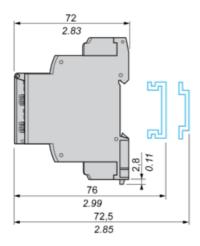
End Of Life Information

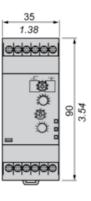
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Level Control Relays

Dimensions and Mounting





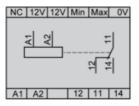


Product data sheet Connections and Schema

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Level Control Relays

Wiring Diagram



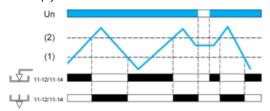
Product data sheet Technical Description

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Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

Un Nominal supply voltage

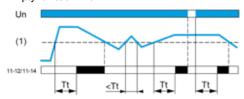
- (1) Min. level
- (2) Max. level

11-12/11-14, 21-22/21-24 Output relay connections

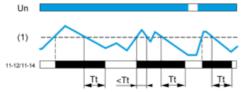
Relay status: black color = energized.

Control of One Level

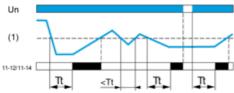
Empty function T on



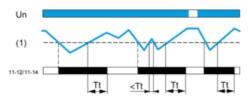
Empty function T off



Fill function T on



Fill function T off



Legend

Tt Time delay after crossing of threshold

Un Supply voltage

- (1) Level threshold
- 11-12/11-14, 21-22/21-24 Output relay connections

Relay status: black color = energized.