



Harmony, Modular liquid level control relay, 5 A, 2 CO, 24...240 V AC/DC

RM35LM33MW



Main

Range of product	Harmony Control Relays
Product or component type	Level control relay
Relay type	Level control relay
Relay name	RM35L
Relay monitored parameters	Detection by resistive probes
Time delay	Adjustable 0.15 s, +/- 10 %
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
Measurement range	250 Ohm1 MOhm
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	1750 ms
Maximum switching voltage	250 V AC/DC
[Un] rated nominal voltage	24240 V AC/DC 50/60 Hz +/- 10 %
Supply voltage limits	20.4264 V AC/DC
Operating voltage tolerance	- 15 % + 10 % Un
Power consumption	1.5 W DC
Output contacts	2 C/O
Nominal output current	5 A
Delay at power up	0.6 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 scale	0.255 kOhm LS (Low Sensitivity) 5100 kOhm St (Standard Sensitivity) 501000 kOhm HS (High Sensitivity)	
Sensitivity adjustment	5100 %	
Maximum supply current for sensors	1 mA	
Cable capacitance	1 nF at HS (High Sensitivity) for probe cable 2.2 nF at St (Standard Sensitivity) for probe cable 4.7 nF at LS (Low Sensitivity)	
Marking	CE: 73/23/EEC CE: EMC 89/336/EEC	
Overvoltage category	III conforming to IEC 60664-1	
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 > 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60664-1 > 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 EN/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	
Environment	100 mg DC	
Immunity to microbreaks	100 ms DC 90 ms AC	
Electromagnetic compatibility	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2	
Standards	EN/IEC 60255-6	
Product certifications	CSA GL UL C-Tick GOST	
Ambient air temperature for	-4070 °C	
storage	-2050 °C	
Ambient air temperature for operation	-2050 °C	
Ambient air temperature for	-2050 °C 95 % at 55 °C conforming to IEC 60068-2-30	

Pollution degree	3 conforming to IEC 60664-1 2 kV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-1	
Dielectric test voltage		
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	134.0 g	
Package 1 Height	4.7 cm	
Package 1 width	7.8 cm	
Package 1 Length	9.7 cm	
Unit Type of Package 2	P06	
Number of Units in Package 2	384	
Package 2 Weight	65.66 kg	
Package 2 Height	75 cm	
Package 2 width	80 cm	
Package 2 Length	60 cm	
Unit Type of Package 3	S03	

Offer Sustainability

Contractual warranty

Warranty

Number of Units in Package 3

Package 3 Weight

Package 3 Height

Package 3 width

Package 3 Length

48

7.411 kg

30 cm

30 cm

40 cm

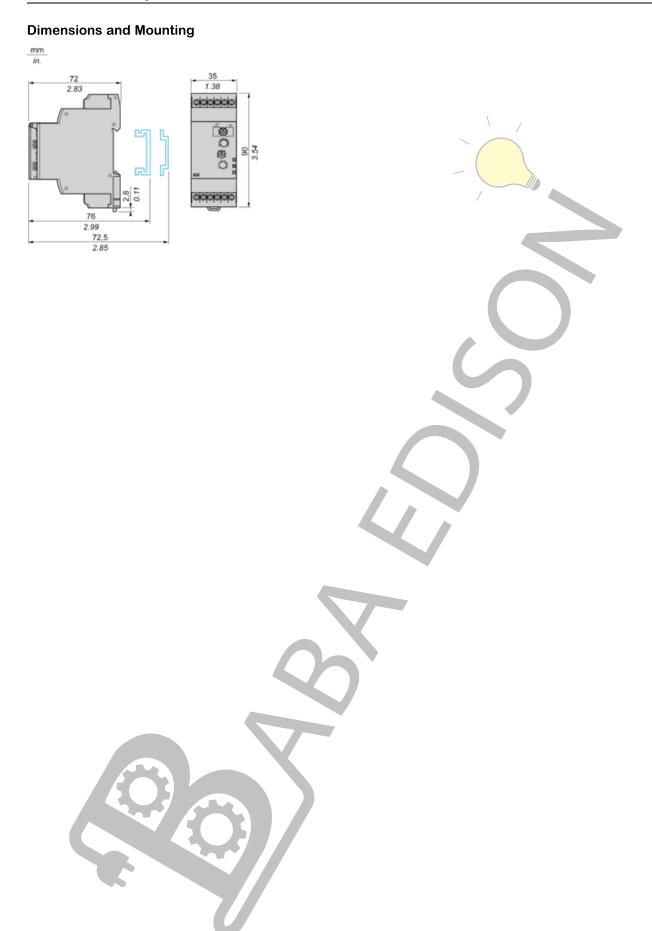
18 months

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	

Life Is On	Schneider

Dimensions Drawings

Level Control Relays



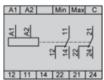
Product data sheet

RM35LM33MW

Connections and Schema

Level Control Relays

Wiring Diagram





Product data sheet

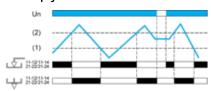
RM35LM33MW

Technical Description

Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

Un Supply voltage

(1) Min. level

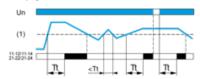
(2) Max. level

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

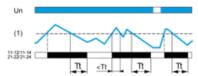
Relay status: black color = energized.

Control of One Level

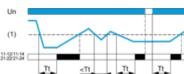
Empty function T on



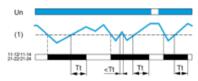
Empty function T off



Fill function T on



Fill function T off



Legend

Tt Time delay after crossing of threshold

Un Supply voltage

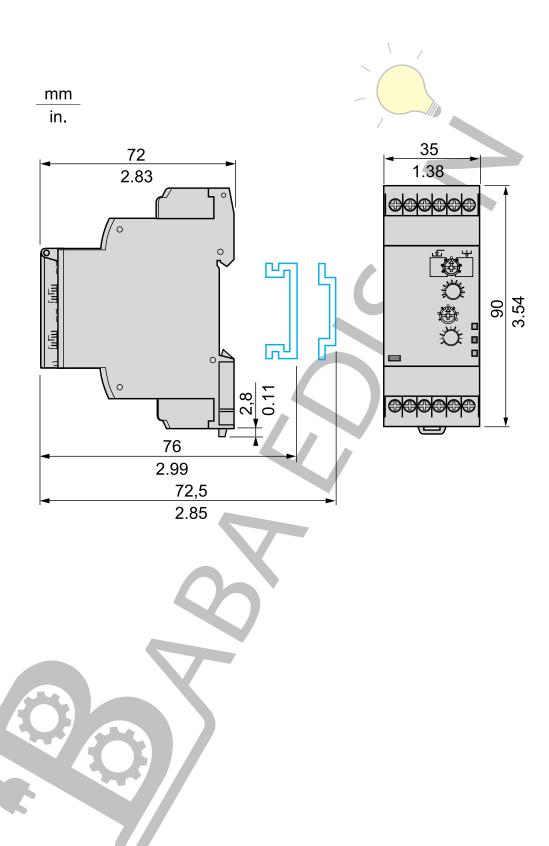
(1) Level threshold

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

Relay status: black color = energized.



Dimensions



Technical Illustration

Wiring Diagram

