

level control relay, Harmony Control Relays, 5A, 2CO, 24…240V AC DC

RM35LM33MW

Product availability: Stock - Normally stocked in distribution facility

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 resistive probes	
time delay	Adjustable 0.15 s, +/- 10 % Tt- time delay upon fault	
Switching capacity in VA	1250 VA	
Minimum switching current	10 mA 5 V DC	
Maximum switching current	5 A AC/DC	
power consumption	5 VA AC	
Measurement range	250 Ohm1 MOhm	
Utilisation category	AC-12 IEC 60947-5-1	
	AC-13 IEC 60947-5-1	
	AC-14 IEC 60947-5-1	
	AC-15 IEC 60947-5-1	
	DC-12 IEC 60947-5-1	
	DC-13 IEC 60947-5-1	
Contacts type and composition	2 C/O	

Complementary

J		
Reset time	1750 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	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 % time delay	
Measurement error	0.5 %/°C with temperature variation	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 HS (High Sensitivity) probe cable	
	2.2 nF St (Standard Sensitivity) probe cable 4.7 nF LS (Low Sensitivity)	
	4.7 III LO (LOW Gensilivity)	
Marking	CE : 73/23/EEC CE : EMC 89/336/EEC	
Overvoltage category	III conforming to IEC 60664-1	
Insulation resistance	> 500 MOhm 500 V DC between supply and relay output IEC 60255-5	
	> 500 MOhm 500 V DC between measurement and relay output IEC 60664-1	
	> 1 MOhm 500 V DC between supply and measurement IEC 60255-5	
	 > 500 MOhm 500 V DC between supply and relay output IEC 60664-1 > 500 MOhm 500 V DC between measurement and relay output IEC 60255-5 	
	> 1 MOhm 500 V DC between supply and measurement IEC 60664-1	
[Ui] rated insulation voltage	250 V IEC 60664-1	
Operating position	Any position without derating	
Connections - terminals		
comecuons - terminais	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 0.32 x 2.3 mm AWG 20AWG 14) solid without cable end	
	Screw terminals, 1 x 0.21 x 2.5 mm² AWG 24AWG 12) flexible with cable end	
Fightening torque	5.38.9 lbf.in (0.61 N.m) IEC 60947-1	
Housing material	Self-extinguishing plastic	
Local signalling	for relay ON LED (yellow)	
	for power ON LED (green)	
	for timer ON LED (yellow)	
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	
Measurement range	0.251000 kOhm	
Safety reliability data	B10d = 170000	
	MTTFd = 182.6 years	
Width	1.4 in (35 mm)	
Control Type	Without test button	
		
Environment		
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 industrial environments comforming to 120 01000-0-4 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	CSA	
	GL	
	UL	
	C-tick GOST	
	0001	

Ambient air temperature for operation	-4122 °F (-2050 °C)	
Relative humidity	95 % 131 °F (55 °C) IEC 60068-2-30	
IP degree of protection	IP20 IEC 60529 terminals) IP30 IEC 60529 casing)	
Pollution degree	3 IEC 60664-1	
Dielectric test voltage	2 kV AC 50 Hz, 1 min IEC 60255-5 2 kV AC 50 Hz, 1 min IEC 60664-1	

Ordering and shipping details

Category	US10CP222380	
Discount Schedule	0CP2	
GTIN	3389119405232	
Returnability	Yes	
Country of origin	US	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	1.73 in (4.400 cm)	
Package 1 Width	3.07 in (7.800 cm)	
Package 1 Length	3.74 in (9.500 cm)	
Package 1 Weight	4.727 oz (134.000 g)	
Unit Type of Package 2	S03	
Number of Units in Package 2	48	
Package 2 Height	11.81 in (30.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	15.774 lb(US) (7.155 kg)	
Unit Type of Package 3	P06	
Number of Units in Package 3	384	
Package 3 Height	29.53 in (75.000 cm)	
Package 3 Width	23.62 in (60.000 cm)	
Package 3 Length	31.50 in (80.000 cm)	
Package 3 Weight	144.756 lb(US) (65.660 kg)	

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	43
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

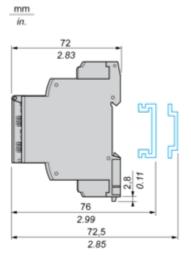
Product data sheet

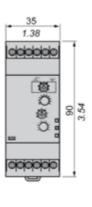
RM35LM33MW

Dimensions Drawings

Level Control Relays

Dimensions and Mounting





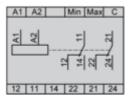
Product data sheet

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Connections and Schema

Level Control Relays

Wiring Diagram

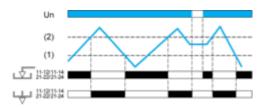


Technical Description

Function Diagrams

Control of Two Levels

Fill/Empty function



Legend

Un Supply voltage

(1) Min. level

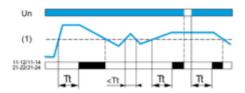
(2) Max. level

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

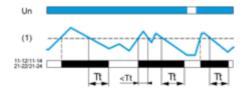
Relay status: black color = energized.

Control of One Level

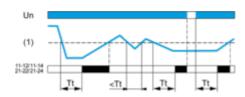
Empty function T on



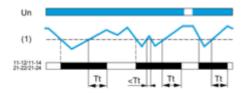
Empty function T off



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

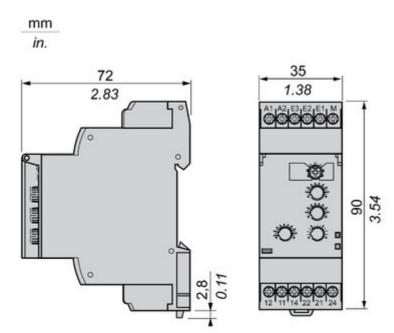
Product data sheet

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Relay status: black color = energized.

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features



Image of product / Alternate images

Alternative













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