

Product datasheet

Specifications



liquid level control relay RM4-L - 380..415 V AC

RM4LG01Q

ⓘ Discontinued

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



Environmental Data

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 >](#)

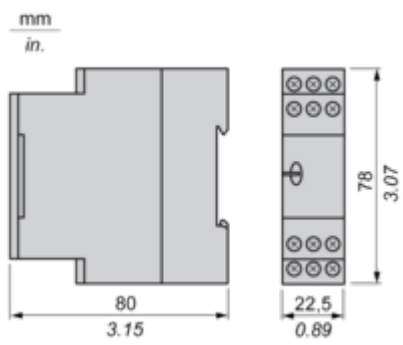
Use Longer

Lifetime extension	
Repair	No

Dimensions Drawings

Liquid Level Control Relays

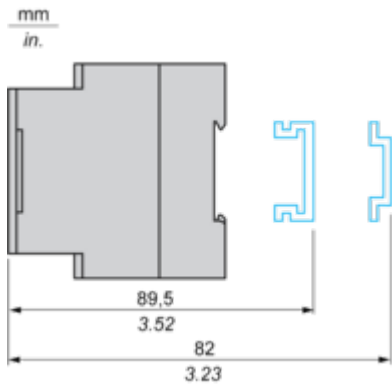
Dimensions



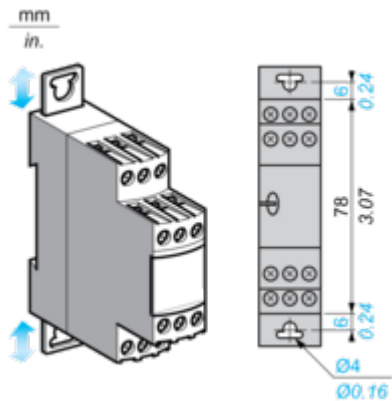
Mounting and Clearance

Liquid Level Control Relays

Rail mounting



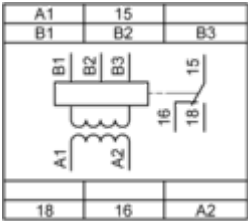
Screw fixing



Connections and Schema

Liquid Level Control Relays

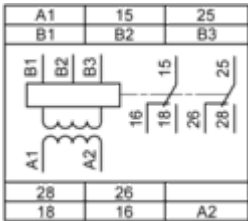
RM4LG01 Wiring Diagram



A1-A2, B1, B2, B3 Supply voltage Electrodes (see table below)
15-18,15-16 1st C/O contact of the output relay

Electrodes and level controlled	
B1	Reference or tank earth electrode
B2	High level
B3	Low level

RM4LA32 Wiring Diagram

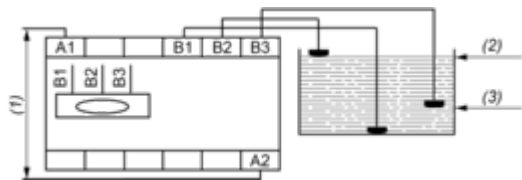


A1-A2, B1, B2, B3 Supply voltage Electrodes (see table below)
15-18,15-16 1st C/O contact of the output relay
25-28, 25-26 2nd C/O contact of the output relay

Electrodes and level controlled	
B1	Reference or tank earth electrode
B2	High level
B3	Low level

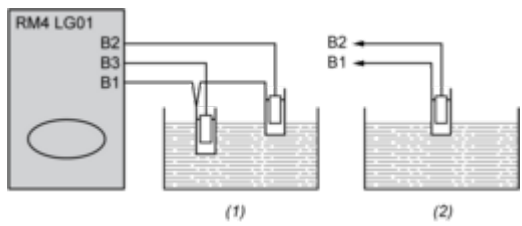
Connection Examples

Control by Electrodes



- (1) Supply voltage
- (2) High level
- (3) Low level

Control by Probes



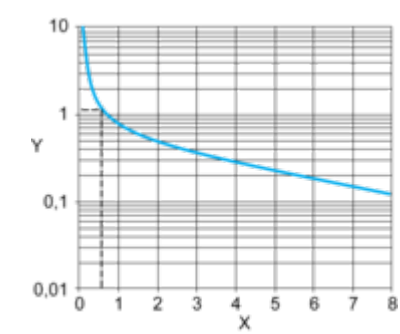
- (1) 2 levels
- (2) 1 level

Performance Curves

Electrical Durability and Load Limit Curves

AC Load

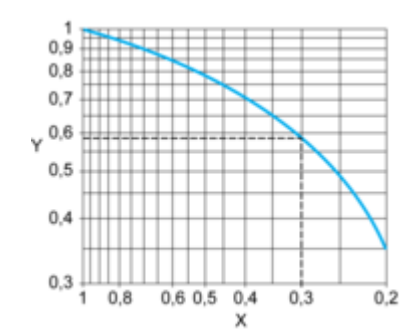
Curve 1: Electrical durability of contacts on resistive load in millions of operating cycles



X Current broken in A

Y Millions of operating cycles

Curve 2: Reduction factor k for inductive loads (applies to values taken from durability Curve 1)

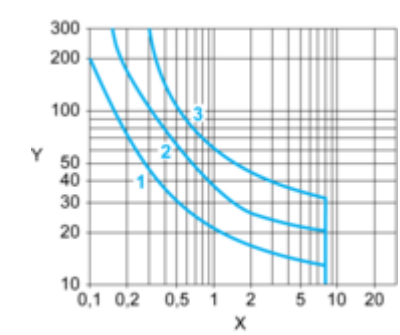


X Power factor on breaking (cos φ)

Y Reduction factor K

DC Load

Load limit curve



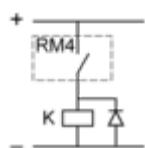
X Current in A

Y Voltage in V

1 L/R = 20 ms

2 L/R with load protection diode

3 Resistive load

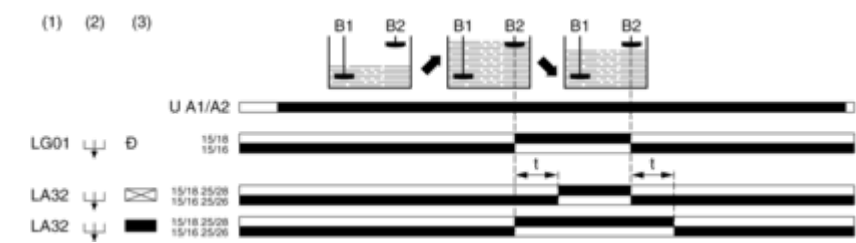


Technical Description

Function Diagrams

Empty Function

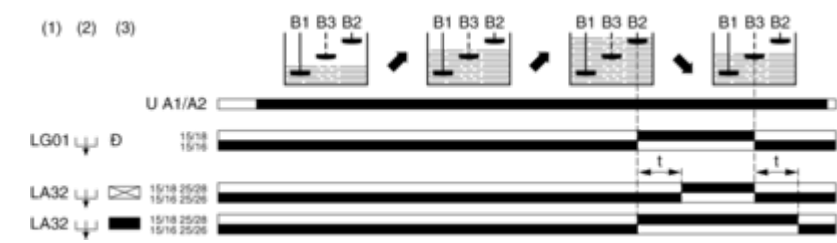
Maximum level detection (2 electrodes or 1 probe LA9RM201)



Legend

- U A1/A2 Supply voltage
- B1 Reference electrode
- B2 High/low level electrode
- (1) Type RM4
- (2) Function switch
- (3) Time delay switch
- 15/16, 15/18; 25/26, 25/28 Output relays connections
- Relay status: black color = energized.

Regulation between a maximum and a minimum level (3 electrodes or 2 probes LA9RM201)

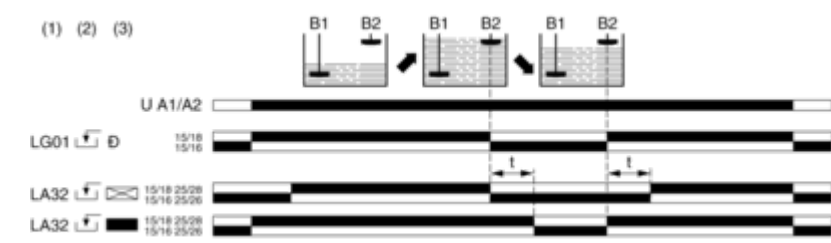


Legend

- U A1/A2 Supply voltage
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- (3) Time delay switch
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Fill Function

Maximum level detection (2 electrodes or 1 probe LA9RM201)

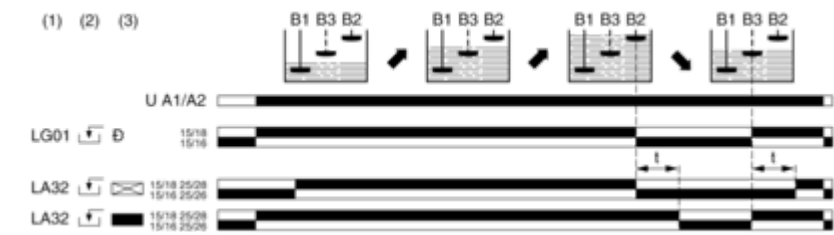


Legend

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Relay status: black color = energized.

NOTE: On RM4LA32, a time delay can be set on energization or de-energization of the output relay.