

Conductometric level controller

MS8105 DIN Rail



TECHNICAL DESCRIPTION AND INSTRUCTION FOR USAGE

PLOVDIV 2007

I. DESIGNATION

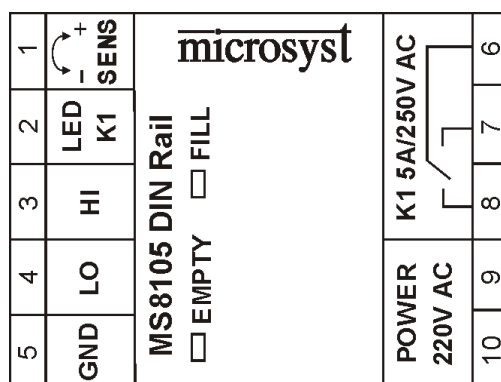
The device is suitable for level supervision and control of all types of conductive liquids in closed or open containers in two points. The controller works by the principle for measurement of the electrical conductivity.

It is suitable for positional control of all types of conductive liquids at controlling of technological processes in the food, chemical, pharmaceutical, etc. industries. MS8105 DIN Rail is very small and easy for usage.

II. TECHNICAL DATA

Relay outputs	1
K1 – Control of higher and lower level	Реле 250 V AC / 5 A
Power supply	
Power supplying voltage	220 V AC / 50 Hz
Operating conditions	
Operating temperature	0 ... 50 °C
Operating relative humidity	0 ... 80 % RH
Dimensions	
Overall dimensions (WxHxL)	M36 DIN Rail, 35x86x57 mm
Installation	DIN Rail
Weight	max 150 g
Storage	
Storage temperature	-10 ... 70 °C
Storage relative humidity	0 ... 95 % RH

III. LOCATION OF THE TERMINALS



IV. ADJUSTMENT OF THE SENSITIVITY

Adjustment according to the conductivity of the liquid. At position 1 of the terminal order there is a trimmer for adjustment of the sensitivity.

For high-resistant liquids the trimmer must be turned clockwise for increasing of the sensitivity.

* At adjustment the time-delay of the output must be read (≈ 2 sec.)

V. CONNECTION OF LEVEL SENSORS TO MS8105 DIN Rail

FILLING CONTROL

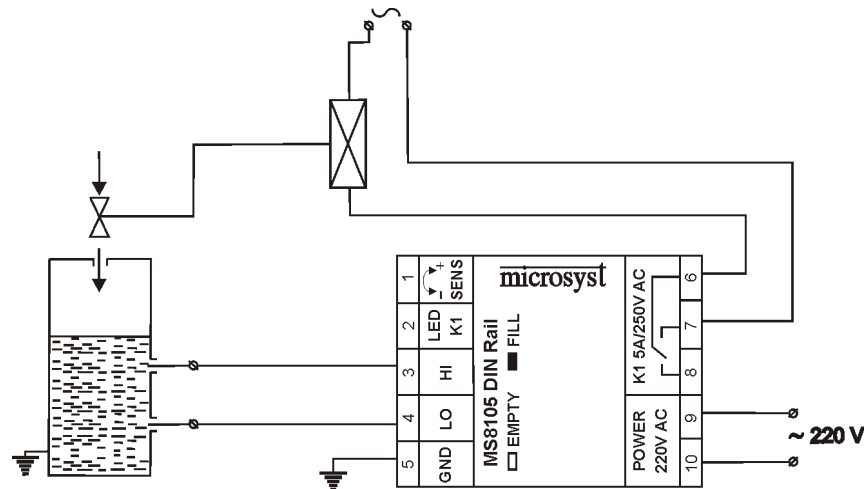


Fig. 1

EMPTYING CONTROL

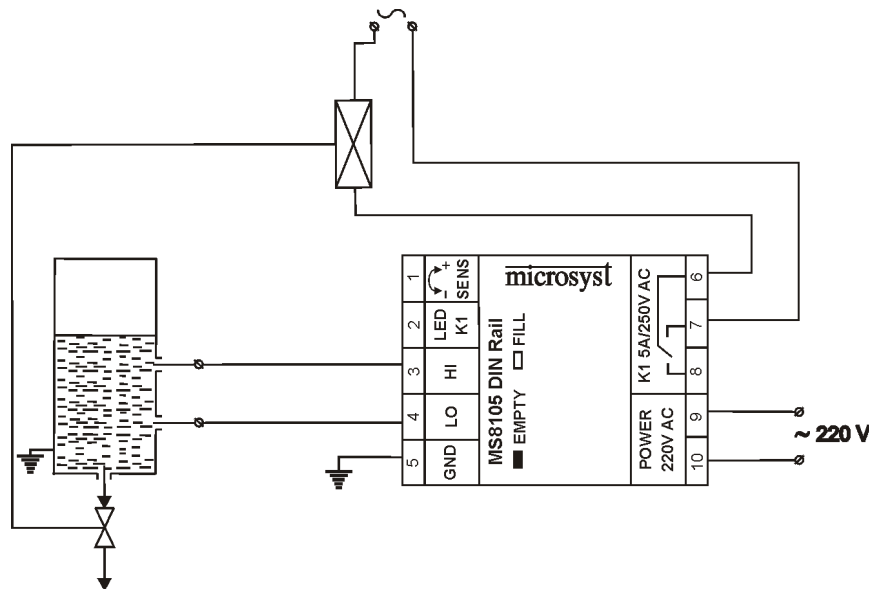


Fig. 2

- If the container case is non-conductive G must be switched to third electrode, submerged under the level Lo.
- At position 2 of the terminal order there is a LED, indicating the status of the output.

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