

## Level Controller Sensing for 1 or 2 Levels.

LC - 01

### Basic Functions

| Min-Max - 2 switch points             | Max - 1 switch point                                 |
|---------------------------------------|------------------------------------------------------|
| UP (NR)-Pump Up<br>DOWN(RN)-Pump Down | UP(NR)-overflow protect<br>DOWN (RN)-run dry protect |

Function switch UP (NR) / DOWN (RN)

Conductive measurement principle (for conductive media)

Sensitivity adjustable

LED indicators : power - relay state - cable break

Probes are operated with alternate current signal

Supply and measurement signal are isolated from each other

Safety circuit against supply or transformer malfunction; filling and / or draining process will be stopped

Line break monitoring, useable with 1 switch point in connection with level probe type -W

Adjustable On and Off switch delay max. 20 sec. (middle position 10 sec. )



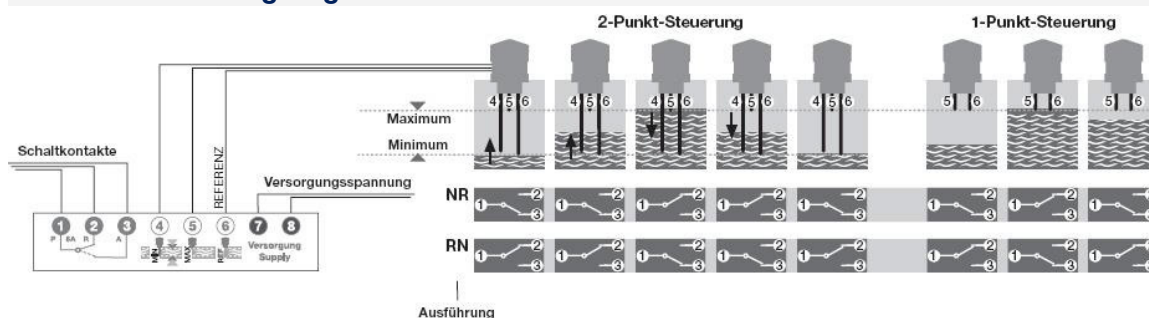
### Technical data

|                          |                                                                |                            |                                                                   |
|--------------------------|----------------------------------------------------------------|----------------------------|-------------------------------------------------------------------|
| <b>Dimensions</b>        | L 75 x W 55 x H 110mm                                          | <b>Protection class</b>    | Housing IP40 / Terminal IP20, with captive touch protected screws |
| <b>Housing</b>           | Quick install onto standard DIN rail according to DIN EN 50022 | <b>Supply voltage</b>      | 230V AC, 24V DC                                                   |
| <b>Output</b>            | 1 SPDT, closed circuit current principle                       | <b>on request</b>          | 24V AC                                                            |
| <b>Switching voltage</b> | max. 250V AC                                                   | <b>Supply frequency</b>    | 50-60 Hz                                                          |
| <b>Switching current</b> | 6A                                                             | <b>Tolerance</b>           | -15% bis +10%                                                     |
| <b>Power On time</b>     | 100%                                                           | <b>Power consumption</b>   | max 3,1 VA<br>Type 24V DC: 0,7 VA                                 |
| <b>Probe voltage</b>     | 12V AC                                                         | <b>Ambient temperature</b> | -20°C up to +60°C                                                 |

### Measuring Range

| Position<br>DIP switch 2 | Resistivity Range ( $\Omega$ ) | Conductance ( $\mu S$ )<br>max. | Probe Current<br>( $\mu A$ ) | Cable Length (m)<br>max. |
|--------------------------|--------------------------------|---------------------------------|------------------------------|--------------------------|
| Up (10k)                 | -330 k                         | 3                               | <36                          | 100                      |
| Down (10k)               | -150 k                         | 7                               | <80                          | 200                      |
| Up (10k)                 | -70 k                          | 14                              | <170                         | 500                      |
| Down (100k)              | -1,8 M                         | 0,55                            | <7                           | 100                      |

### Funktion and wiring diagram



Technische Änderungen vorbehalten / modifications reserved