

Level Controller

NR 98LS, RN 98LS

Sensing for 1 or 2 levels. Open frame for mounting in fuse / control box

Basic functions	
Min-Max - 2 switch points NR - Pump Up RN - Pump Down	Max - 1 switching point NR - Overflow protection RN - Run Dry protection

Conductive measurement principle (for conductive media)

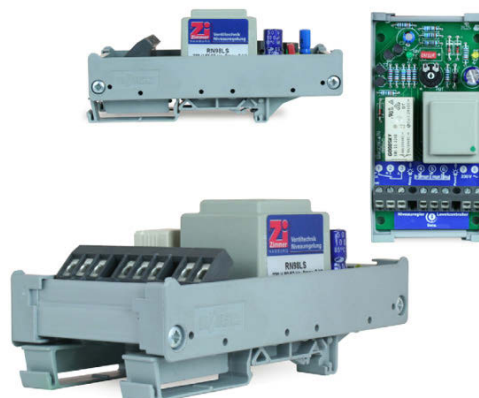
Sensitivity is adjustable

LED indicators for relay state and operation

Probes are operated with alternate current signal

Supply and measurement signal are isolated from each other

Safety measure against supply or transformer malfunction, then the filling and / or draining process will be stopped



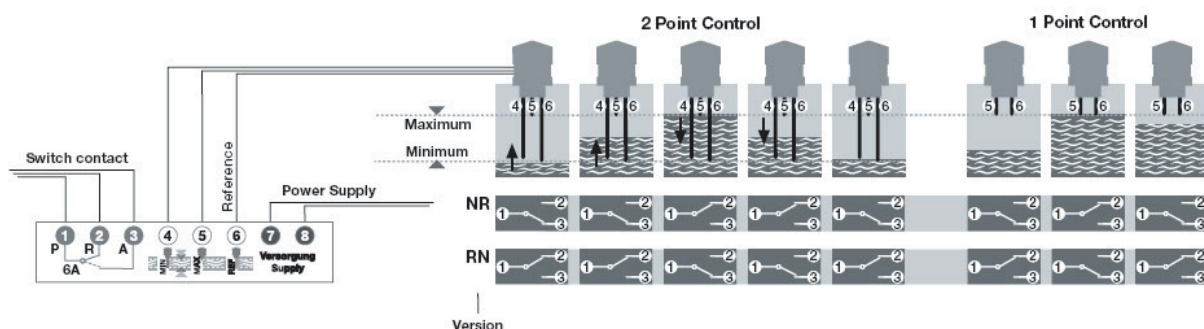
Technical data

Dimensions:	L 96 x B 51,5 x H 41,5mm
Housing:	Quick install onto standard DIN rail to DIN EN 50022
Output:	1 SPDT energised for action
Switching voltage:	max. 250V AC
Switching current:	6A
Power On time:	100%
Probe voltage:	Centre position 12V AC max. 25V AC

Protection class:	Open Frame / Terminal IP20 with captive, touch protected screws
Supply voltage:	230V AC
on request:	24V AC, 42V AC, 115V AC
Supply frequency:	50-60 Hz
Tolerance:	-15% to +10%
Power consumption:	max. 2,7VA
Ambient temperature:	-20°C up to +60°C

Type	Resistivity Range KΩ (centre position)	Conductance μS max.	Probe Current ≈ μA	Cable Capacity nF (centre position)	Cable Lenth m (centre position)
Standard	-70 (20)	14	< 340	60	500
-3	-800 (330)	1,25	< 30	4	30
-3/12	-1200 (700)	0,85	< 20	1	8

Functional and wiring diagram



Options

Variant -3	High sensitive, for media with less conductivity, e.g. full demineralized water, condense.
Variant -VZ	Switching delay, useful for moving filling media, undulation.
Variant -3VZ	High sensitive and switching delay together

Technische Änderungen vorbehalten / modifications reserved