



EAN code  
HRH-4/230V: 8595188117517  
HRH-4/24V: 8595188117500

**Technical parameters** **HRH-4**

Function:	2
Voltage range:	AC/DC 230 V or AC/DC 24 V (AC 50-60 Hz)
Burden:	max. 7 VA/1.5 W
Max. dissipated power (Un + terminals):	4 W
Operating range:	-15 %; +10 %

**Measuring circuit**

Sensitivity (input resistance):	adjustable in range 5 kΩ - 100 kΩ
Voltage on electrodes:	max. AC 3.5 V
Current on probes:	AC < 0.1 mA
Time response:	max. 400 ms
Max. capacity of probe cable:	800 nF (sensitivity 5 kΩ), 100 nF (sensitivity 100 kΩ)
Time delay (t):	adjustable, 0.5 - 10 sec
Time delay (t1):	1.5 sec

**Accuracy**

Setting accuracy (mech.):	± 5 %
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**Output**

Number of contacts:	4x switching
Rated thermal current:	25 A*
Loading in AC3:	4 kW/400 V
Mechanical life:	6.000.000 ops.
Electrical life (AC1):	150.000 ops.

**Other information**

Operation temperature:	-20 .. 55 °C (-4 .. 131 °F)
Storage temperature:	-30 .. 70 °C (-22 .. 158 °F)
Dielectrical strength (supply-output):	3.75 kV, galvanically insulated
Operating position:	any
Protection degree:	IP65
Pollution degree:	2
Dimensions:	160 x 135 x 83 mm (6.3" x 5.3" x 3.3")
Weight:	743 g (26.2 oz.)
Standards:	EN 60255-1, EN 60255-26, EN 60255-27, EN 60669-1, EN 60669-2-1
Recommended measuring probes:	see pg. 132

\* 1-phase 1 HP|240 Vac, 1/3 HP|120 Vac  
3-phase 3 HP|240 Vac, 5 HP|460 Vac

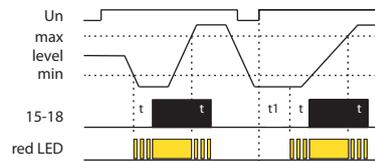
**Function description**

- PUMP UP** - in case the level falls under a lower limit (sensor D), a relay switches and a pump pumps a liquid up until it reaches an upper limit (probe H), then a relay opens and a pump stops pumping. When a level reaches a lower limit again, all process is repeated. After the device is energized, relay automatically closes and a pump pumps liquid to upper limit.
- PUMP DOWN** - in case a level reaches over an upper limit, a relay closes and a pump pumps liquid down. In case a level reaches a lower limit, a relay opens and a pump stops pumping. When energized, a relay is in an open state and a pump operates only after an upper limit is exceeded.
- In case you combine inputs H and D and connect them to one probe, the device will keep only one level (upper and lower limit will become one). In function PUMP UP relay closes in case the level falls under a probe level. A pump pumps liquid up and in case the level reaches a probe level, a relay opens and a pump stops. The level is kept in a small range around the probe. In function PUMP DOWN relays closes in case a level reaches a probe level. A pump pumps down until the level reaches a probe, then relay opens and pump stops.

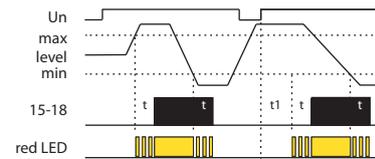
- In an easy way it automates operations of pumps depending on level.
- Control of level in wells, tanks, reservoirs,...
- It is delivered as a connected set - easy installation.
- Possibility to monitor level of any type of conductive liquid.
- It serves for an automatic operation in 1-phased and 3-phased pumps.
- Set of level switch HRH-5 and a contactor VS425.
- Function choice - pumping up or down.
- Unit requires incoming over-current protection.
- Protection degree of the set is IP65.
- There is a possibility of 4 types of probes in a various design (they are not a part of this set, it is possible to deliver).
- Unit is placed in a plastic box with dimensions 160 x 135 x 83 mm (6.3"x 5.3"x 3.3").

**Function**

**Function PUMP UP**



**Function PUMP DOWN**



**Connection**

