Level switch HRH-5



relay is designated for monite	oring levels in wells, reservoirs

- In one device you can choose the following configurations:

 one-level swotch of conductive liquids (by connecting H and D)
 two-level switch of conductive liquids
- one-state device monitors one level, two-state device monitors two levels (switches on one level and switches off on another level)

pools, tanks

choice of function PUMP UP, PUMP DOWN

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- adjustable time delay on the output (0.5 10s)
- sensitivity adjustable by a potentiometer (5-100kΩ)
- measuring frequency 10Hz prevents polarization of liquid and raising oxidation of measuring probes
- galvanically separated supply voltage UNI 24.. 240 VAC/DC
- output contact 1xchangeover 8A/250V AC1
- in 1-module type, mounting onto a DIN rail

Technical parameters	HRH-5	Connection	
unctions:	2	Monitoring of two levels op Un	
Supply terminals:	A1 - A2	·	
upply voltage:	24 240 V AC/ DC		<u>2</u> 1
apply voltage.	max. 2 VA		j,
oleration of supply voltage:	-15 %· +10 %		
	13 /0, 110 /0	┃ ↓	
onsitivity (input resistance):	odiustokla iz razga E k0, 100 k0	min 16 C	
furrant in probac:	MdX. AC 3.5 V	Tank with monitored level	<u>]</u>
	AC <0.1 MA	·	
Max, capacity of proba cables	mdx. 400 ms	Function	
Time delay (t):	800 nF (sensitivity $SK\Omega$), 100 nF (sensitivity 100 $K\Omega$)	runction	
Time delay (l).		Function PUMP UP	
Time delay after switching on (LT):	I.5 Sec		
Accuracy	. 50/		
Accuracy III Setting (Inechanical):	± 5 %	level	
<u>Output</u>	1x changeover (AgNi)	min	/
Number of contacts:		15-18 t t t1 t	t
Number of contacts:		red LED	
Switched output:			
Switched voltage:		Device description	
Min. switched output DC:	200 mw		
Mechanical life (AC1):	IX IU'		1.00
Electrical life:	IX IO ²		
<u>Other data</u>		Indication of supply voltage	1
Operational temperature:	-20 + 55 %	Choice of function	V
Storing temperature:	-30 +/0 °C		
Electrical strenght:	3.75 kV (supply – sensors)		-V
Operational position:	any		14
Mounting:	DIN rail EN 60715	Adjustment of delay on output	
Protection degree:	IP 40 from font panel	·	V
Overvltage category:	III.		
Pollution degree:	2	Symbol	
Profile of connecting wires (mm ²):	max.1x 4, max.2x2.5/ with sleeve max. 1x2.5, 2x1.5	A1 16 18	
Dimensions:	90 x 17.6 x 64 mm, for details see pg.157-159		
Weight:	72 g		
Applicable standards:	EN 60255-6, EN 61010-1		
Recomended measuring probes:	see pg. 106	لغ کم	

Description of function

Relay is designated for monitoring of levels of conductive liquids with possibility of functions: PUMP UP or PUMP DOWN. To prevent polarization and liquid electrolysis of liquid, and undesirable oxidation of measuring probes, alternating current is used. For measuring use three measuring probes: H- upper level, D- lower level, C - common probe. In case you use a tank made of a conductive material, you can use it as probe C. In case you require monitoring of one level only, it is neccessary to connect inputs H and D and connect them to one probe - in this case sensitivity is lowered by half (2.5... $50k\Omega$). Probe C can be connected with a protective wire of supply system (PE). To prevent undesirable switching out output contacts by various influences (sediment on probes, humidity...) it is possible to set sensitivity of the device according to conductivity of monitored liguid (corresponding to "resistance" of liquid) range 5 up to 100...k Ω . To reduce infuences of undesirable switching of output contacts by liquid gorgle in tanks, it is possible to set delay of output reaction 0,5 - 10s.

