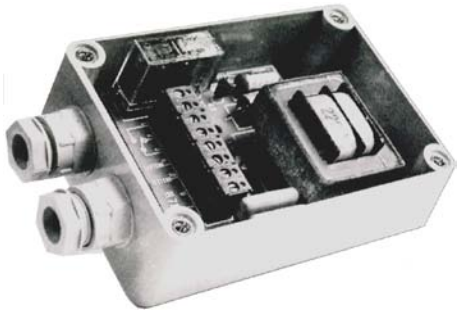
Conductive Level Sensor

- Detection of a Single Level
- Regulation between Two points
- Detection threshold: 20 kΩ typical
- 1 potential-free change over contact



Functions & Introduction

See our **NR Manual**: Conductive Level Switches.
A Conductive Detector is associated with a Probe: See Manuals **A11** and **SR01**.

It takes the form of an electronic card delivered in FOUR versions:

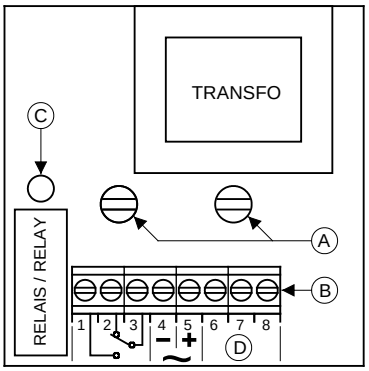
- **R7H** : card mounted in IP65 housing with 2 PE9,
- **R7HC** : cared mounted in IP65 housing with 2 PE9 + 1 PE11,
- **R7HS** : bare board, with 2 insulating spacers for cabinet mounting,
- **R7HSD** : bare board, with 2 DIN Universal Supports for DIN rail mounting.

For the FOUR versions, the "Basic Card" is set secured to its mount by two screws (Diagram 1 - Mark A).
The wiring is via a screwed terminal block (Diagram 1 - Mark B).
A RED LED (Diagram 1 - Mark C) shows the status of the output relay.

Technical specifications

Power Supply	Standard	230V AC, +10/-15%, 50/60
	OPTIONAL	24, 48, 110V AC
		12, 24 and 48V DC
Power	4 VA	
Voltage on the electrode	24V rms	
Short-circuit current	6 mA rms	
Detection threshold	20 k∧ typical	
Output	1 potential-free change over contact	
	220V rms, 3A, 500VA, 100W	
Connection	Screwed terminal block for cable 2.5 max.	
Insulation	2000 Volts	
Working temperature (°C)	-20 to +60°C	
Housing protection	IP65	
Dimensions & Weights	See page 2/2	

DIAGRAM 1: Basic Card



A. Card fixing screws
B. Terminal block
C. RED LED
D. Probe connection(s)

Standard references

			R	7	H	_	_	_	_	_
Version	~~Card mounted in IP65 Plastic Housing~~	~~110x75x58 mm + 2 PE9~~				~~_~~				
		105x105x66 mm + 2 PE9 + 1 PE11				C				
	Bare Card for cabinet mounting	with 2 Insulating Spacers				S				
		with 2 DIN Brackets				S	D			
Power Supply	AC	230V AC						2	2	0
		115V AC						1	2	7
		48V AC						4	8	
		24V AC						2	4	
	DC	48V DC						4	8	C
		24V DC						2	4	C
		12V DC						1	2	C

Subject to change without notice. Damaged circuit

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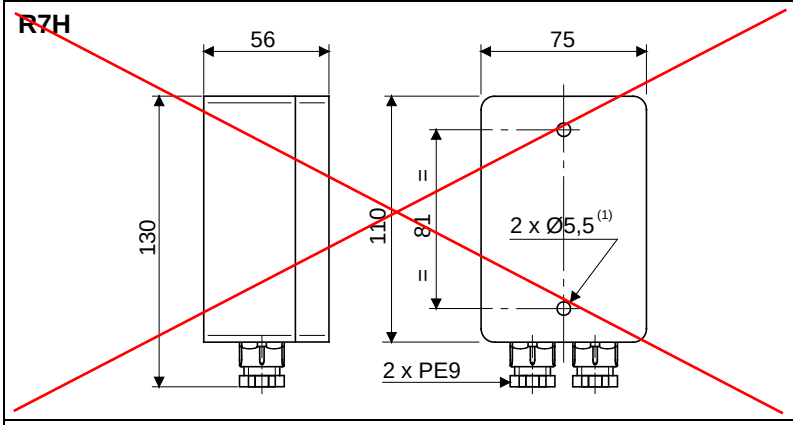
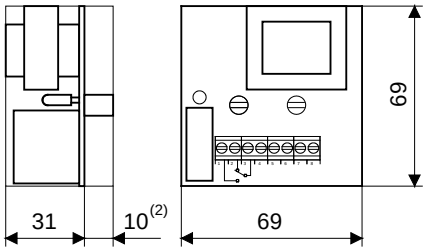
Installation & Dimensions

A. Open the R7H housing and remove the plastic caps covering the two mounting holes.
B. Secure the housing with two M4 screws.
C. Replace the screw caps or you will change the housing's protection class.

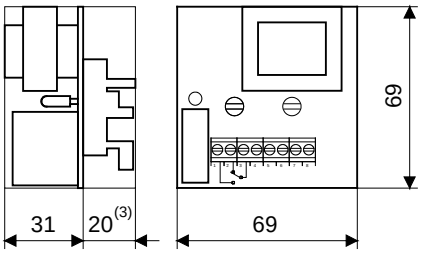
R7H



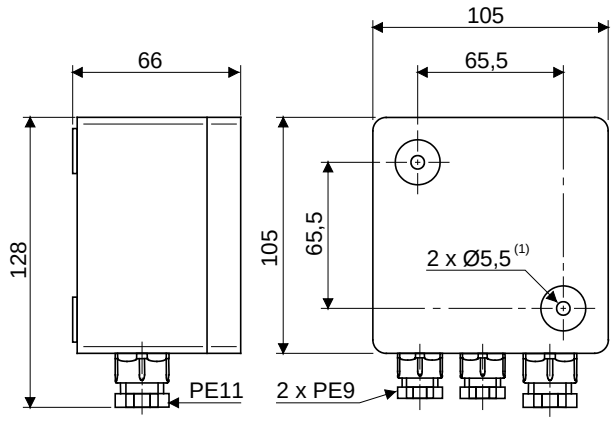
R7HS



R7HSD



R7HC

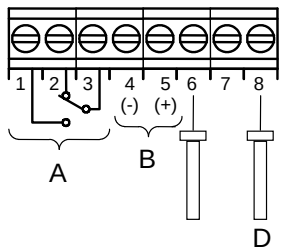
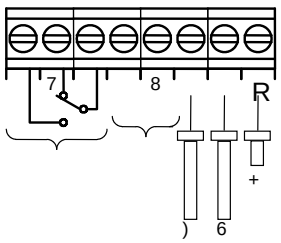


WEIGHTS

R7H and R7HC	: About 400g
R7HS and R7HSD	: Approx. 200g

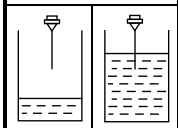
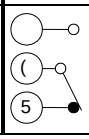
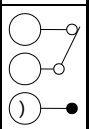
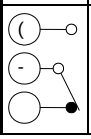
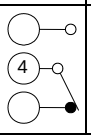
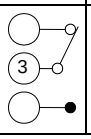
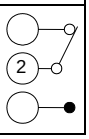
(1) Housing mounting holes
(2) Card securing spacers
(3) Universal DIN supports

Wiring

Single detection	Regulation between 2
	

A	Relay output - Changeover contact
B	Power Supply
D	Detection electrode
Max	High level electrode
Min	Low level electrode
R	Reference electrode

Operation

	DETECTION		REGULATION			
						
Red LED status	●		●	●		
Status Relay	Rest	Energized	Rest	Rest	Energized	Energized
Status Contact						

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