Conductive Level Sensor

- Detection of a Single Level
- Regulation between Two points
- Detecting an interface between two liquids of different conductivities
- **Detection threshold variable from 4.7 to 470 k** Ω typical
- I potential-free changeover contact
- Double insulated device

Functions

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

Introduction

A Detector comprises two elements:

- A plastic, plug-in **Electronic Housing** whose front has a Green voltage indicator LED and a Red alarm LED.
- A **DIN base** for mounting on a DIN rail with 11 terminals.

Standard: 230V AC, +10/-15%, 50/60 Hz			
Optional: 24, 48 and 110V AC			
1.5 VA			
-20 to +60°C			
18V rms			
1% of the nominal value			
Variable from 4.7 k∧ to 470 k∧; typical			
One inverter, potential-free, 3A/230Vrms, 500VA, 100W			
Maxi clamping capacity: 1 x 2.5			
IP 40			
approx. 160 g			

Technical specifications

Ordering Information

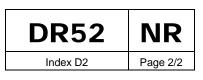
U								
Item code	Power Supply	N.B.						
DR0252CIBE	230V AC	Comes with a DIN socket 214242						
DR0252CIBE-110A	110V AC	Comes with a DIN socket 214242						
DR0252CIBE-48A	48V AC	Comes with a DIN socket 214242						
DR0252CIBE-24A	24V AC	Comes with a DIN socket 214242						
214 242	DIN connection ba	ase						

Subject to change without notice.





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Installation & Dimensions

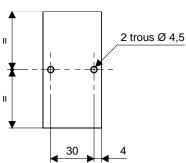
The Detector Housing plugs into its DIN 41556 base.

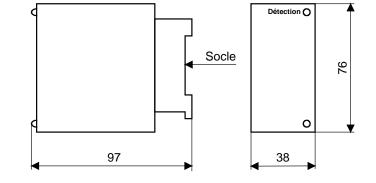
This base can be mounted in two ways : wall mounting by 2 M4 screws or DIN 46277 rail mounting.

Wall mounting the DIN 41556 base

The fixing holes are positioned relative to the size of the front face of the housing.

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Commissioning & Operation

- 1. Connect your probe following "Diagram 1.A" or "Diagram 1B", depending on your application,
- 2. Connect the "Output Contact" following "Diagram 2",
- 3. Connect the power supply according to "Diagram 2", checking the voltage specific to your device. Once turned on, the "Green LED" must be lit.
- 4. Test your detection chain as shown in "Diagram 3".
- 5. If the "RED LED" does not change state, immerse the electrode(s), then rotate the "*Potentiometer sensitivity*" to the right, until the RED LED lights and return to Point 4.

Electrical connection on DIN 41556 base

DIN 41556 BASE	Diagram 1.A	Diagram 1.B	Diagram 2
	Single Level Detection	Regulation between 2	Power Supply & Relays
2 (1) (11) (10) 9 9 9 9 9 9 9 9 9	(5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	5 Electrode Maxi. 6 Electrode Mini. 7	Alim. 10 10 10 10 10 10 10 10 10 10
	of the vessel, if it is not insu		ground electrode) or to the wall

As the device is double insulated, grounding is not required.

"Sensitivity" potentiometer Chemical value corresponding to the conductivity of the product relative to the position of the	Diagram 3.	DETE			REGUL		₽ ₽	Remarks The device has a system to prevent a hazard when switching on. Output voltage corresponding to the conductivity of the product between terminals 8 and 11 Output voltage between terminals 9 and 11 corresponding to the set value.
potentiometer with a tolerance of $\pm 20\%$. 86 kΩ 4,7 kΩ 0 2 4 190 kΩ	Red LED status Status Relay	• Energiz ed	De- energiz ed	• Energiz ed	• Energiz ed	-Ò- De- energiz ed	De- energiz ed	
470 kΩ 10 8 280 kΩ 380 kΩ	Contact status		(4)			(4)		These measurements can be controlled very precisely with a single turn potentiometer.

Subject to change without notice.

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