

# Conductive Level Sensor

DR50

NR

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- Detection of a Single Level
- Regulation between Two points
- Detection threshold: 20 k $\Omega$  typical
- 1 potential-free changeover contact



## 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.

## Technical specifications

<b>Power Supply</b>	Standard = 230V AC, +10/15%, 50/60 Hz. optional = 24, 48 and 24V DC and 110V AC
<b>Power</b>	4 VA
<b>Working temperature</b>	-20 to +60°C.
<b>Electrode voltage</b>	24V rms
<b>Short-circuit current</b>	6mA rms
<b>Detection threshold</b>	20 k $\Omega$ typical
<b>Output</b>	A potential-free changeover. PdC 3A/230Vrms 500VA, 100W
<b>Terminals</b>	<b>Clamping capacity</b> Maxi: 1 x 2.5
<b>Protection class</b>	IP 40
<b>Weights</b>	approx. 160 g

## Ordering Information

Item code	Power	N.B.
DR0250CIBE	230V AC	Comes with a DIN socket 214242
DR0250CIBE-110A	110V AC	Comes with a DIN socket 214242
DR0250CIBE-48A	48V AC	Comes with a DIN socket 214242
DR0250CIBE-24A	24V AC	Comes with a DIN socket 214242
DR0250CIBE-24C	24V DC	Comes with a DIN socket 214242
214 242	DIN connection base	

Subject to change without notice.

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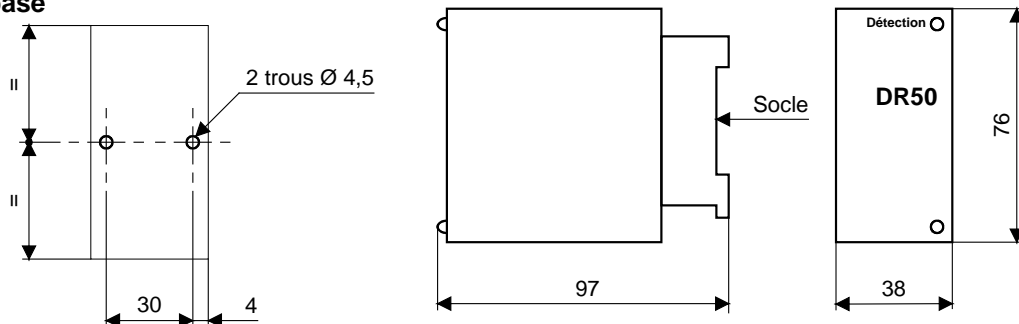
## Installation & Dimensions

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.



## Commissioning

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 following "OPERATING table".

## Electrical connection on DIN 41556 base

DIN 41556 BASE	Diagram 1.A	Diagram 1.B	Diagram 2
	<b>Single Level Detection</b>	<b>Regulation between 2 points</b>	<b>Power Supply &amp; Relays</b>
			<p>Alim. — (2) (-)</p> <p>— (10) (+)</p> <p>Contact Inverseur { (4) — Relais excité</p> <p>(1) — Commun</p> <p>(3) — Relais désexcité</p>
<p><b>NOTES :</b> Connect terminal 7, preferably to a reference electrode (ground electrode) or to the wall of the vessel, if it is not insulated.</p> <p>As the device is double insulated, grounding is not required.</p>			

## Operation

	DETECTION		REGULATION			
Red LED status	●	☀	●	●	☀	☀
Status Relay	De-energized	Energized	De-energized	De-energized	energized	energized
Status Contact						

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