

Conductive Level Sensor

DR53

NR

Index C

Page 1/2

- Detection of a Single Level
- Regulation between Two points
- Detecting an interface between two liquids of different conductivities

- 2 potential-free change over contacts,
- Variable detection threshold from 0 to 47 kohms
- Delay 1-52 seconds.



Functions

See our **NR Manual**: Conductive Level Switches..

A Conductive Detector is associated with a Probe: See Manuals **A11**, **SR01** and **RL6**.

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

Power Supply	Standard: 230V, +10-15%, 50...60Hz. Optional: 24, 110V AC and 24V DC
Consumption	3 VA max.
Electrode voltage	10V AC max.
Detection threshold	Variable from 0 to 47 kohms
Delay	Variable from 1 to 52 seconds
Output	TWO potential-free changeovers 3A/250V AC
Terminals	Maxi clamping capacity: 1 x 2.5 mm ² .
Temperature	Use -20 to +50°C/Storage -30 to +80°C.
Protection class	Front IP 40
Weights	approx. 160g

Ordering Information

Item code	Power Supply	N.B.
DR0253CIBE	230V AC	Comes with a DIN socket 214242
DR0253CIBE-110A	115V AC	Comes with a DIN socket 214242
DR0253CIBE-24A	24V AC	Comes with a DIN socket 214242
DR0253CIBE-24C	24V DC	Comes with a DIN socket 214242
214 242	DIN connection base	

Subject to change without notice.

Conductive Level Sensor

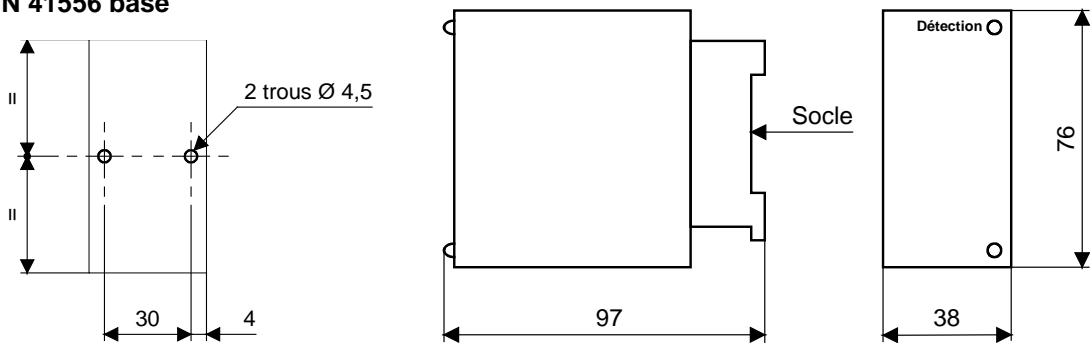
Installation & Dimensions

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

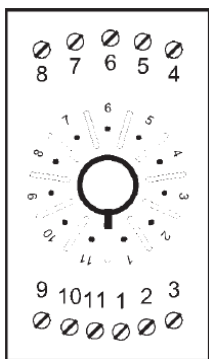
The fixing holes are positioned relative to the size of the front face of the housing.



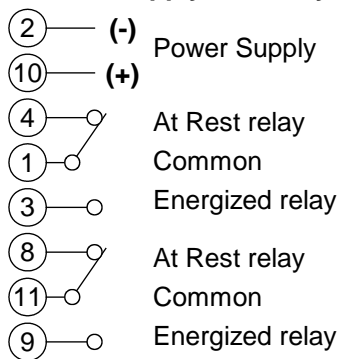
Wiring

Screw terminals are provided on the DIN 41556 base - Follow the instructions in the diagrams below.

DIN41556 BASE

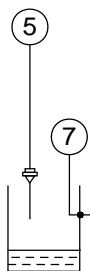


Power Supply & 2 Relays

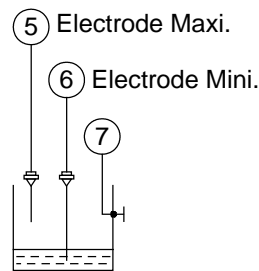


Electrodes

Detection Single Level



Regulation between two points

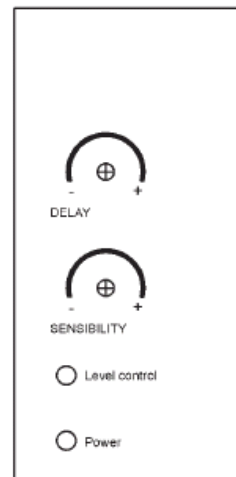


Remark

If the tank has an insulating wall, connect terminal 7 to a reference electrode (ground electrode).

Commissioning & Operation

1. Turn the power on - green LED on (your device power supply checked).
2. Connect the electrode to terminal 5 (Maxi electrode, in the case of two-point control).
3. Lower the level of the product until the electrode shows. The light is off (relay de-energized).
4. Control the switching by increasing the level. The indicator lights (relay energized).
5. In the case of two-point control, connect the Mini electrode to terminal 6.



	DETECTION		REGULATION			
	Low level	High level	Low level	Low level	High level	High level
Red LED status	●	☀	●	●	☀	☀
Status Relay	De-energized	Energized	De-energized	De-energized	Energized	Energized
Status Contact	④-①-③	④-①-③	④-①-③	④-①-③	④-①-③	④-①-③

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