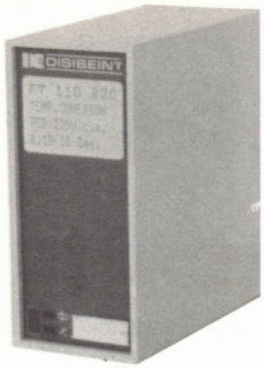


FN 150
Fixed sensitivity

FN 155
Adjustable sensitivity

FN 150|FN 250
FN 155|FN 255

- **Level control for conductive liquids.**
- **D.C. SUPPLY.**
- **MAXIMUM AND/OR MINIMUM LEVEL.**
- **FN 150. Fixed sensitivity.**
- **FN 155. Adjustable sensitivity.**
- **Led indicating power on.**
- **Led indicating relay on.**

CHARACTERISTICS

Technical data in common
See page 10 and 11

Supply
712 - 12V D.C.
724 - 24V D.C.

Variation in the supply voltage
± 30% of the nominal voltage.

Sensitivity
FN 150. It is fixed and adjusted to 25 K Ω. The relay is energized at 25 K Ω and releases at 45 K Ω.
FN 155. It is adjustable by means of a built-in control on a relative scale from 0 to 10.

Control position	0	10
RELAY ON	< 3,5KΩ	< 25KΩ
RELAY OFF	> 8KΩ	> 45KΩ

Voltage in probe lines
24V A.C.

Current in probe lines
Maximum 25 mA.

Probe connection cable
Usually 1 to 2,5 sq.mm section cables are used, with good insulation and without shielding. In some installations (when the power and probe lines are parallel in the same tube shielded cable is recommended. The resistance between cables and ground must be at least 200 K Ω. The screen is connected to terminal 7, which is the one corresponding to earth.

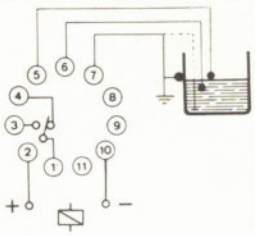
Ground connection
If the tank is not conductive, an additional probe must be fitted for connecting the ground, terminal 7.

Accessories
Sockets
IDM system coding ring
Attachment springs
Front mounting frame
Probes: NS - NR - NR 43650 - NRA 43650 - NRP - NP - PS3 overvoltage protector.
Protecting covers.

OPERATING PRINCIPLE

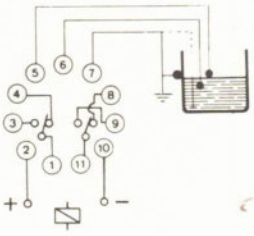
Example 1

MAX. AND MIN. LEVEL



FN 150/155

MAX. AND MIN. LEVEL

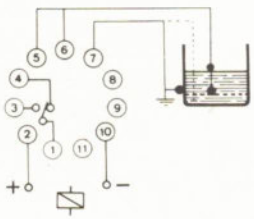


FN 250/255

Maximum and minimum level control
The relay operates when the liquid reaches the maximum level electrode (5). It is released when it goes below the minimum level electrode (6).

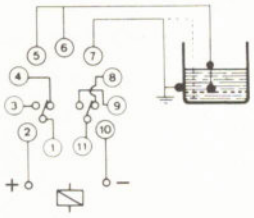
Example 2

MAX. OR MIN. LEVEL



FN 150/155

MAX. OR MIN. LEVEL

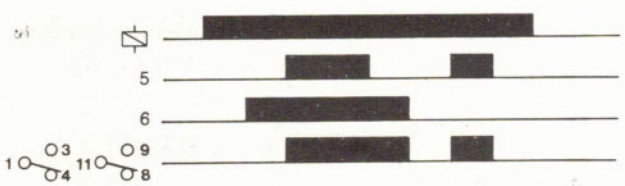


FN 250/255

Maximum or minimum level control
The relay operates when the liquid reaches the electrode (5-6) and it is released when it goes below the electrode.

FUNCTION DIAGRAM

Example 1



Example 2