## Description

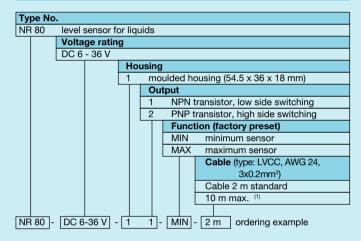
Level Sensor NR 80 is designed to monitor a preset medium level in electrically non-conductive containers with a wall thickness up to approx. 5 mm. It is fitted outside the container. Suitable for water and other electrically conductive liquids with a high relative dielectric constant  $\epsilon_{\rm r}.$ 

Available as MIN or MAX sensor.

## Features

- non-invasive mounting
- transistor output
- minimum or maximum sensor
- LED status indication
- very small physical size

### **Ordering information**



<sup>(1)</sup> Available cable lengths: 2 m, 3 m, 5 m, 8 m, 10 m



## **Technical data**

Input voltage	DC 636 V
	or with power supply NG 03
Power consumption	typically 5 mA
Output	NPN transistor, low side switching, or
	PNP transistor, high side switching
max. load	100 mA, with free-wheeling diode
Voltage drop	approx. 2 V
Ambient temperature	0 °C +70 °C
Medium temperature	sensor not in contact with medium
Response delay	approx. 60 ms
Degree of protection	IP 54 housing
to IEC 529/DIN 40050	
Medium	liquids
Pressure resistance	N/A
Connection	3-wire AWG24 cable
Reverse polarity protection	in-built
Material	
housing	ABS = acrylonitrile butadine styrene
Mounting method	outside container (see dimension diagram)
Mounting attitude	optional
Cable length	2 m standard, 10 m max.
Switch point hysteresis	vertically mounted:
(depending on medium	12.5 mm max. (probe dia. = dia. of
viscosity)	active surface)
Mass	approx. 90 g

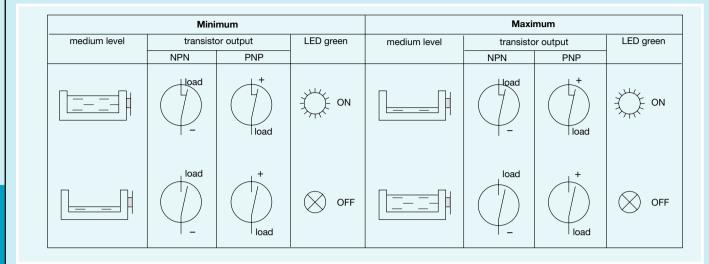
### Options

AC voltage ratings and relay outputs: only with power supply NG 03 (see page 151)

(  $\pmb{\varepsilon}$  mark to demonstrate compliance with applicable directive.

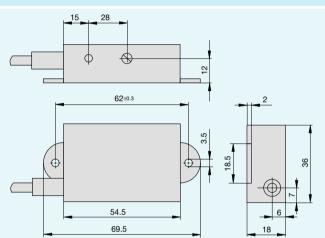
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# Status indication factory preset for MIN or MAX

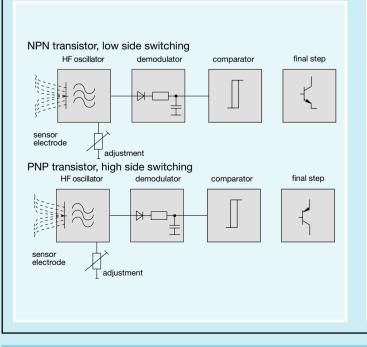


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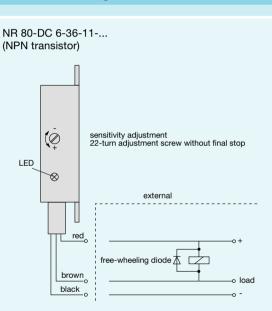
## Dimensions



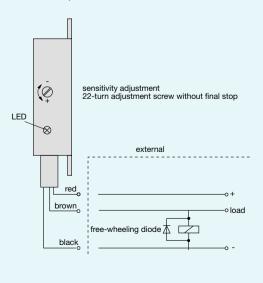
### Schematic diagram



## **Connection diagram**



#### NR 80-DC 6-36-12-... (PNP transistor)



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