

Description

Level Sensor NR 150 is suitable for liquids with low relative dielectric constant ϵ_r (e.g. oil). With MIN/MAX selector switch.

Features

- status indication by 2 LEDs
- suitable for general industrial applications
- recommended for oil or media with similar electrical conductivity
- min/max selector switch
- transistor output
- max. medium temperature +130 °C

Ordering information

Type No.	
NR 150	Level Sensor
Voltage rating	
DC 9-36 V	short-circuit proof PNP transistor output
Mounting method	
G3/4A	thread to DIN 13, part 6, ISO 228/1
3/4"NPT	thread to ANSI B1.20.1
Probe material	
C	Tefzel® (ETFE)
Fitting material	
1	stainless steel 1.4305/AISI 303
2	stainless steel 1.4571/AISI 316 Ti (standard)
Cable (type LVCC, AWG24, 3x0.2 mm ²)	
standard without cable	

NR 150 - DC9-36V - G3/4A - C 2 ordering example

Ordering information for cable

Type No.	
KA type 1	LVCC. AWG 24, 3x0.2mm ²
Available cable lengths	
... 2 m, 3 m, 5 m, 10 m, 15 m, 20 m, 25 m, 30 m, 40 m, 50 m ... 200 m (in 10 m steps)	
KA type 1	2 m ordering example

Accessories

OZ031Z000097 metal coupling if the sensor is to be used as an immersion sensor

Options

AC voltage ratings and relay outputs:
only with power supply NG 03 (see page 77)



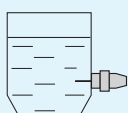
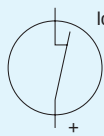
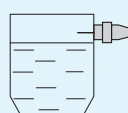
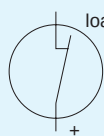
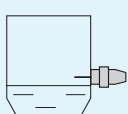
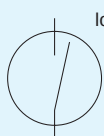
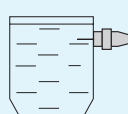
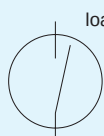
NR 150-...

Technical data

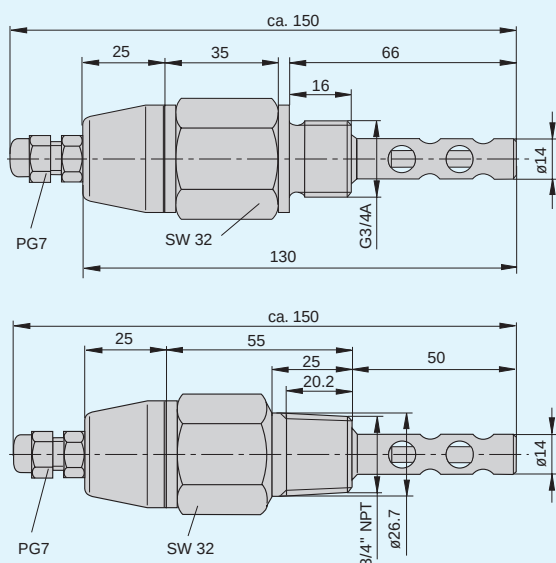
Input voltage	DC 9...36 V or with power supply NG 03
Power consumption	typically 15 mA
Output max. load	PNP transistor, high side switching, max. 0.3 A (0.5 A short-time) short-circuit and overload protected, with free-wheeling diode
Voltage drop	approx. 2 V
Ambient temperature	-20 °C...+85 °C
Medium temperature	-20 °C...+130 °C (to +150 °C short-time)
Response delay	approx. 0.1 s
Degree of protection to IEC 529/DIN 40050	IP 65 housing (with mating connector)
Cable gland	PG 7
Pressure resistance	25 bar/367.5 PSI
Connection	screw terminals max. 1.5 mm ²
Reverse polarity protection	in-built
Material	
probe	ETFE
fitting	DIN 1.4305/AISI 303, or DIN 1.4571/AISI 316 Ti (standard)
seal (O ring)	Viton®
housing cover	PA6-3-T
Material spec.	ETFE = Tefzel® Ethylene Tetrafluoromethylene) Copolymerisate PA6-3-T = Trogamide, transparent
Mounting method	screw in
Mounting attitude	optional
Cable length	standard without cable 300 m max. Observe voltage drop!
Switching point hysteresis (depending on medium viscosity)	horizontally mounted: 5 mm max. (probe dia.)
Mass	approx. 220 g

CE mark to demonstrate compliance with applicable directive.

Status indication: MIN or MAX

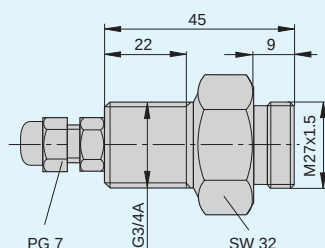
Minimum selector switch pos. 1 			Maximum selector switch pos. 2 		
medium level	transistor output	LED green red	medium level	transistor output	LED green red
		 			 
		 			 
short-circuit in the load circuit		 			 

Dimensions

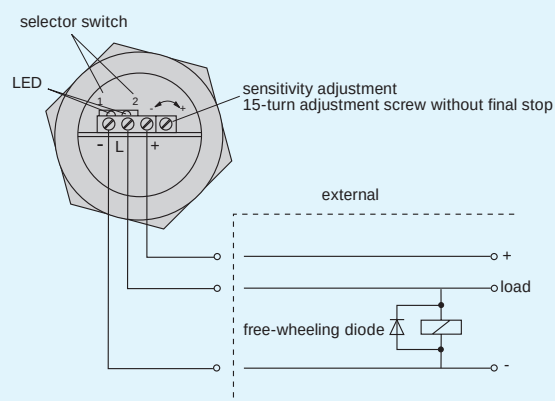


Metal coupling (for pipe extension)

Accessory 0Z031Z000097



Connection diagram



Schematic diagram

