

## Description

Capacitive Level Sensor NR 160 is designed to monitor oil and media with low relative dielectric constant  $\epsilon_r$ . With MIN/MAX selector switch.

## Features

- LED status indication
- max. medium temperature +85 °C
- min/max selector switch
- relay output
- switch delay, 1-60 s adjustable

## Ordering information

Type No.	
NR 200	Level Sensor
<b>Voltage rating</b>	
AC115V	50/60 Hz
AC230V	50/60 Hz
AC240V	50/60 Hz
<b>Mounting method</b>	
G3/4A	thread to DIN 13, part 6, ISO 228/1
3/4"NPT	thread to ANSI B1.20.1
<b>Probe material</b>	
C	Tefzel® (ETFE)
<b>Fitting material</b>	
2	stainless steel 1.4571/AISI 316Ti (standard)

NR 200 - AC230V - G3/4A - C 2 ordering example

## Options

**Connection cable:** only supplied without cable



NR 200-...



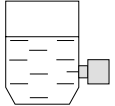
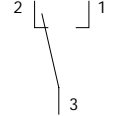

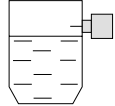
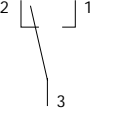

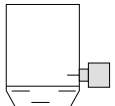
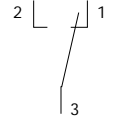

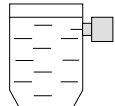
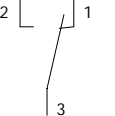

## Technical data

Input voltage	AC 115 V +10% - 15% AC 230 V +10% - 15% AC 240 V +10% - 15%
Power consumption	< 4 VA
Output (relay)	change-over contact
Max. load	
switching capacity	DC 50 - 270 W AC 2000 VA
switching voltage	DC 300 V/AC 250 V
switching current	6 A
Ambient temperature	-20 °C ... +70 °C -4 °F...+158 °F
Medium temperature	-20 °C ... +85 °C (to +125 °C short-time) -4 °F...185 °F (to -257 °F short-time)
Response delay	adjustable between 1 and 60 s
Degree of protection to IEC 529/DIN 40050	IP 67 housing
Cable gland	PG 13.5 with 2 cable entries
Pressure resistance	25 bar/367.5 PSI
Connection	screw terminals max. 1.5 mm <sup>2</sup>
Reverse polarity protection	not required
Material	
probe	ETFE
fitting	DIN 1.4305/AISI 303, or DIN 1.4571/AISI 316Ti (standard)
sealing (O ring)	Viton®
housing	ABS
housing cover	Polycarbonate
Material spec.	ABS = Acrylonitrile butadiene styrene ETFE = Tefzel® Ethylene Tetrafluoromethylene Copolymerisate
Mounting method	screw in
Mounting attitude	optional
Switching point hysteresis (depending on medium viscosity)	horizontally mounted: 5 mm max. (probe dia.)
Mass	approx. 480 g

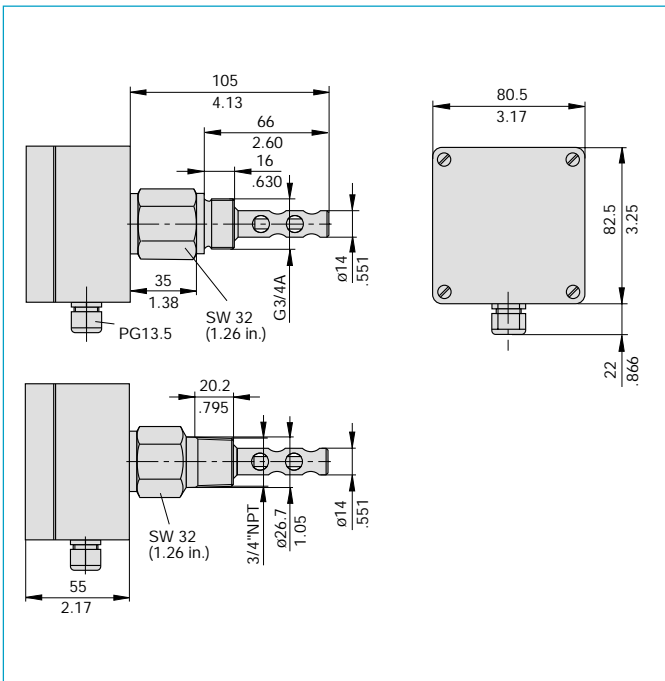
CE mark to demonstrate compliance with applicable directive.

## Status indication: MIN or MAX

2

Minimum selector switch pos. 1 			Maximum selector switch pos. 2 		
medium level	relay contacts	LED green	medium level	relay contacts	LED green
					
					

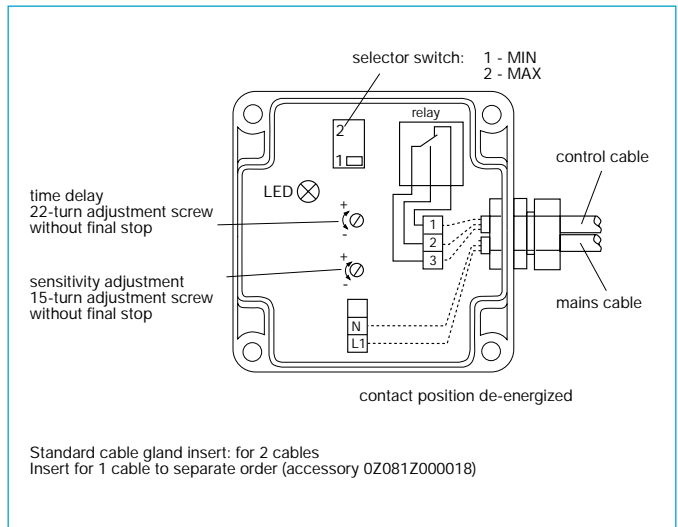
## Dimensions



This is a metric design and millimeter dimensions take precedence ( $\frac{\text{mm}}{\text{inch}}$ )

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

## Connection diagram



## Schematic diagram

