



## Float Switch RLS3000-TN231 with integrated PT100

Combined level and temperature output, stainless steel



- Combination float switch / PT100 / PT1000
- Temperature range: -30°C to max. +150°C
- Electrical connection: cable
- Electrical output: switch contact (level) and resistance output (temperature)
- Process connection: G 3/8", G 1/2", G 1 1/2", G 2", Flange DN50 PN16
- Protection class: IP 66

D-EN-RLS3000-TN231-20190812



## Float Switch RLS3000-TN231 with integrated PT100

Combined level and temperature output, stainless steel

### Description

The model RLS3000-TN231 float switch with temperature output combines the recording of the level and temperature of liquids in a single measuring point. The stainless steel used is suitable for a multitude of media, such as, for example, oil, water, diesel and refrigerants.

### Measuring principle

A permanent magnet built into the float triggers, with its magnetic field, the potential-free reed contacts built into the guide tube. The triggering of the reed contacts by the permanent magnet is contact-free and thus free from wear.

Depending on customer wishes, the switching functions of normally open, normally closed or change-over can be realized for the defined liquid level.

The additional temperature output enables the medium temperature to be monitored by means of a Pt100/Pt1000 resistance signal.

### Features

- Level: Reed switch as switching elements
- Temperature: Pt100 or Pt1000
- Easy installation
- Maintenance-free
- Vertical installation
- Electrical connection: cable outlet
- Temperature range: -30° C to max. + 150 °C
- Protection class: IP 66

### Applications

Combined level and temperature measurement of liquids: oil, water, diesel, aqueous media

- plant construction
- mechanical engineering
- process and process engineering
- shipbuilding
- power plants
- aggregate construction, etc.

### Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

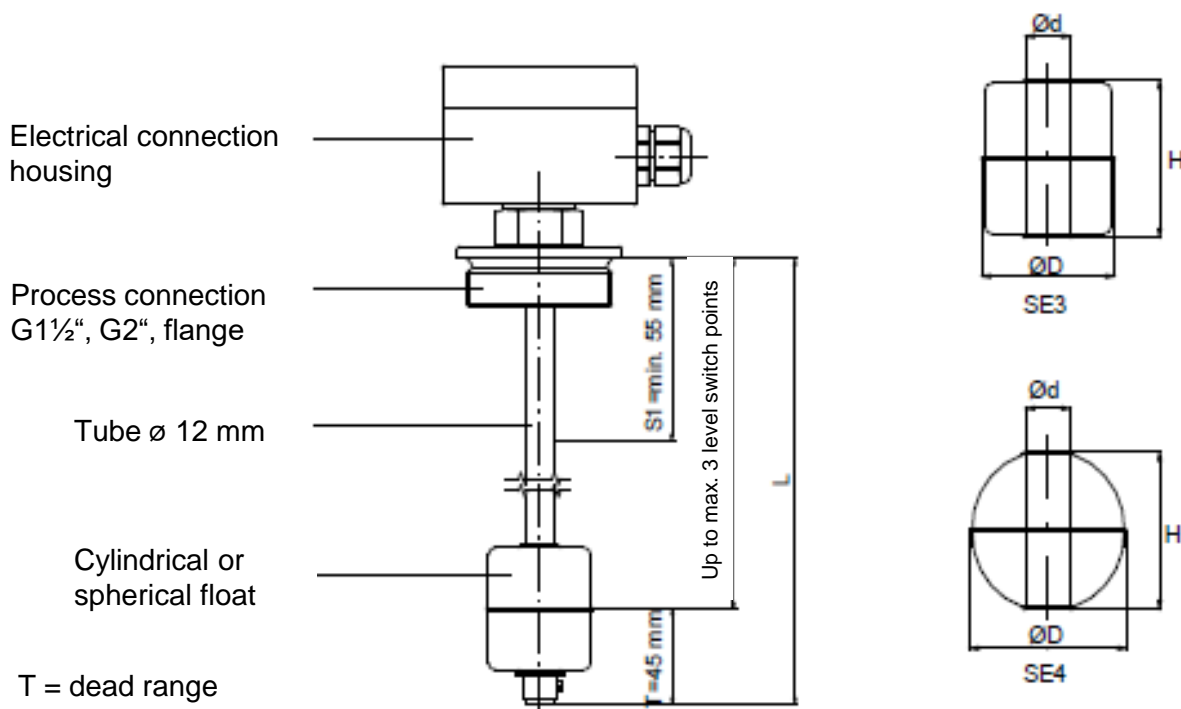
The operating instructions belonging to this device must be observed! Download at [www.schmidt-messtechnik.com](http://www.schmidt-messtechnik.com).



## Float Switch RLS3000-TN231 with integrated PT100

Combined level and temperature output, stainless steel

### Dimensions



Float type	Dimensions			Max. operational pressure (MPa)	Max. operational temperature (°C)	Medium density kg/m <sup>3</sup>	Material
	Ø D (mm)	Ø d (mm)	H (mm)				
SE3 Cylindrical float	44	15	52	1,6	150	≥750	1.4571
SE4 Spherical float	52	15	52	4,0	150	≥750	1.4571

D-EN-RLS3000-TN231-20190812



## Float Switch RLS3000-TN231 with integrated PT100

Combined level and temperature output, stainless steel

<b>Level switch points (max. 3 switch points)</b>		
Note: For more than 2 switching points, the minimum distance between the second and third switching points is 80 mm, as more than 2 switching points require a second float.		
Switching capacity	Normally closed / Normally open	230 V AC; 100 VA; 1 A AC
		230 V DC; 50 W; 0,5 A DC
	Change over	230 V AC; 40 VA; 1 A AC
		230 V DC; 20 W; 0,5 A DC
<b>Switching function</b>	Normally closed, normally open, change over: with rising level	
<b>Temperature: PT100</b>		
Measuring element	PT100 class B, DIN IEC 751	
<b>Technical data</b>		
Mounting position	vertically, $\pm 30^\circ$	
Medium density	$\geq 750 \text{ kg/m}^3$	
Medium temperature	$-30^\circ\text{C}$ to $+150^\circ\text{C}$	
Switching points	Max. 3 level switching points	
Max. pressure	4.0 MPa	
Protection class	IP 54	
Length of tube L	Standard: up to 6000 mm >6000 mm on request	
Process connection	Standard: G $3/8$ ", G $1/2$ ", G $1\frac{1}{2}$ ", G 2", Flange DN50 PN16 Other versions on request	

**Note:** For versions without protective conductor connection operation only at safety extra-low voltage or external grounding.

### Ordering information

Type / output signals for level and temperature / switching function / electrical connection / process connection / sliding tube length L / medium temperature