



Float Switch RLS3000-TN230 with integrated PT100

Combined level and temperature output, stainless steel



- Combination float switch / PT100
- Temperature range: -30 °C to max. + 150 °C
- Electrical output: switch contact (level) and resistance output (temperature)
- Process connection: G1½ ", G 2", flange DN50 PN16
- Protection class: IP 66

D-EN-RLS3000-TN230-20190801



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Description

The model RLS3000-TN230 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 preconfigured bimetal temperature switch or a Pt100/Pt1000 resistance signal.

Features

- Temperature: 1 bimetal temperature switch or Pt100
- Accuracy: Class B
- Potential-free switching reed contacts
- 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 in machine building
Control and monitoring tasks for hydraulic power packs, compressors and in cooling systems
- plant construction
 - mechanical engineering
 - process and process engineering
 - shipbuilding
 - power plants
 - turbines
 - aggregate construction, etc.

Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

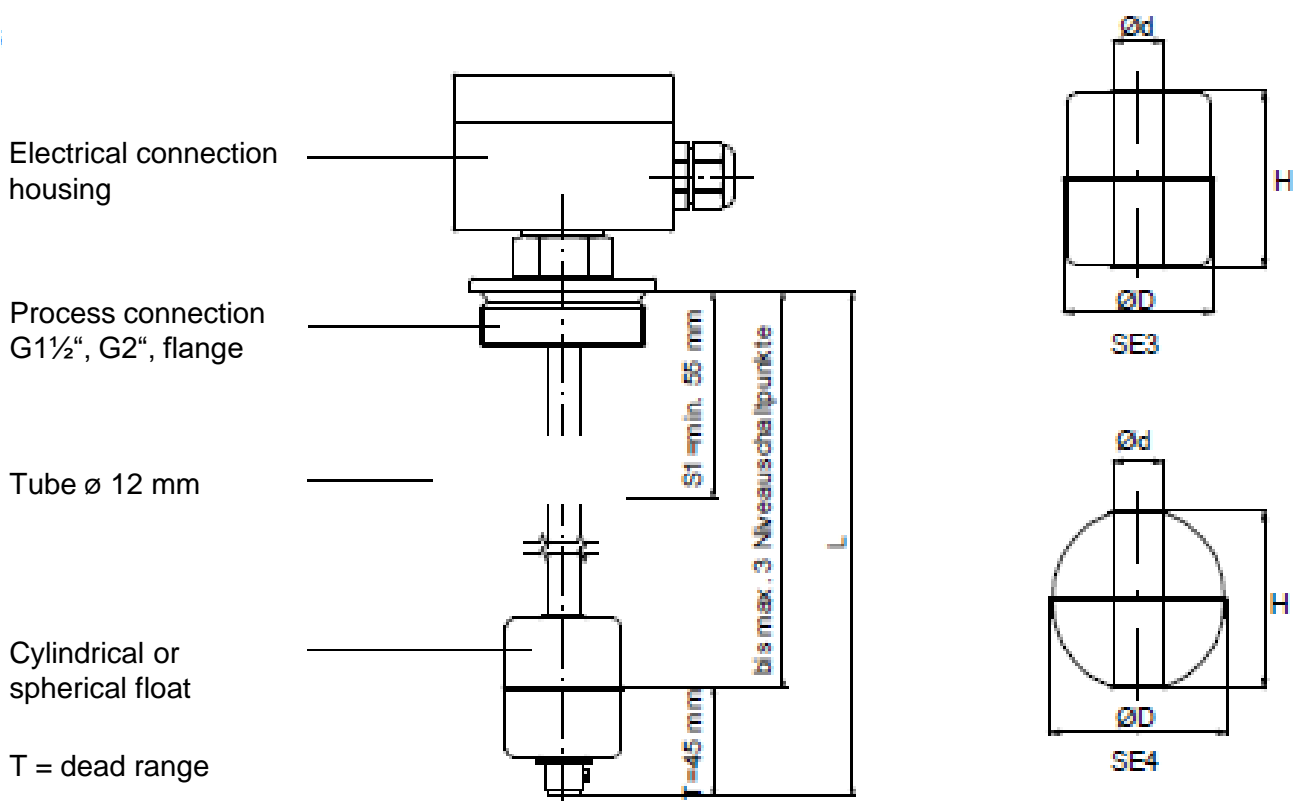
The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.



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Dimensions



Float type	Dimensions			Max. operational pressure (MPa)	Max. operational temperature (°C)	Medium density kg/m ³	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

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Level switch points (max. 3 switch points)		
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
Switching function	Normally closed, normally open, change over: with rising level	
Temperature: PT100		
Measuring element	PT100 class B, DIN IEC 751	
Technical data		
Mounting position	vertically, $\pm 30^\circ$	
Medium density	$\geq 750 \text{ kg/m}^3$	
Mediumtemperatur	-30°C bis $+150^\circ\text{C}$	
Housing	Aluminum 75 x 80 x 57 mm Aluminum 58 x 64 x 36 mm Polycarbonat e 80 x 82 x 55 mm	
Process connection	Standard: G 1½", G 2" Flange DN50 PN16, Other versions on request	
Max. pressure	4,0 MPa	
Protection class	IP 66	
Length of tube L	Standard: up to 6000 mm >6000 mm on request	

Ordering information

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