Float Switch RLS3000-TN210

Combined level and temperature output, stainless steel

- Combination float switch and thermal switch
- Temperature range: -30 °C to max. + 150 °C
- Electrical output: switching contact (level), switching contact (temperature)
- Process connection: G 1½ ", G2", flange DN50 PN16
- Protection class IP66

D-EN-RLS3000-TN200-20190607

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Description
The model RLS3000-TN210 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
- Media compatibility: Oil, water, diesel, refrigerants and other liquids
- Level: Up to 3 switching outputs, freely definable as normally open, normally closed or change-over contact
- Temperature: 1 bimetal temperature switch or Pt100/Pt1000, accuracy: Class B
- Potential-free switching reed contacts
- Easy installation
- Maintenance-free
- Vertical installation
- Electrical connection: housing
- 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.

Float type	Dimensions			Max. operational pressure (MPa)	Max. operational temperature (°C)	Medium density kg/m³	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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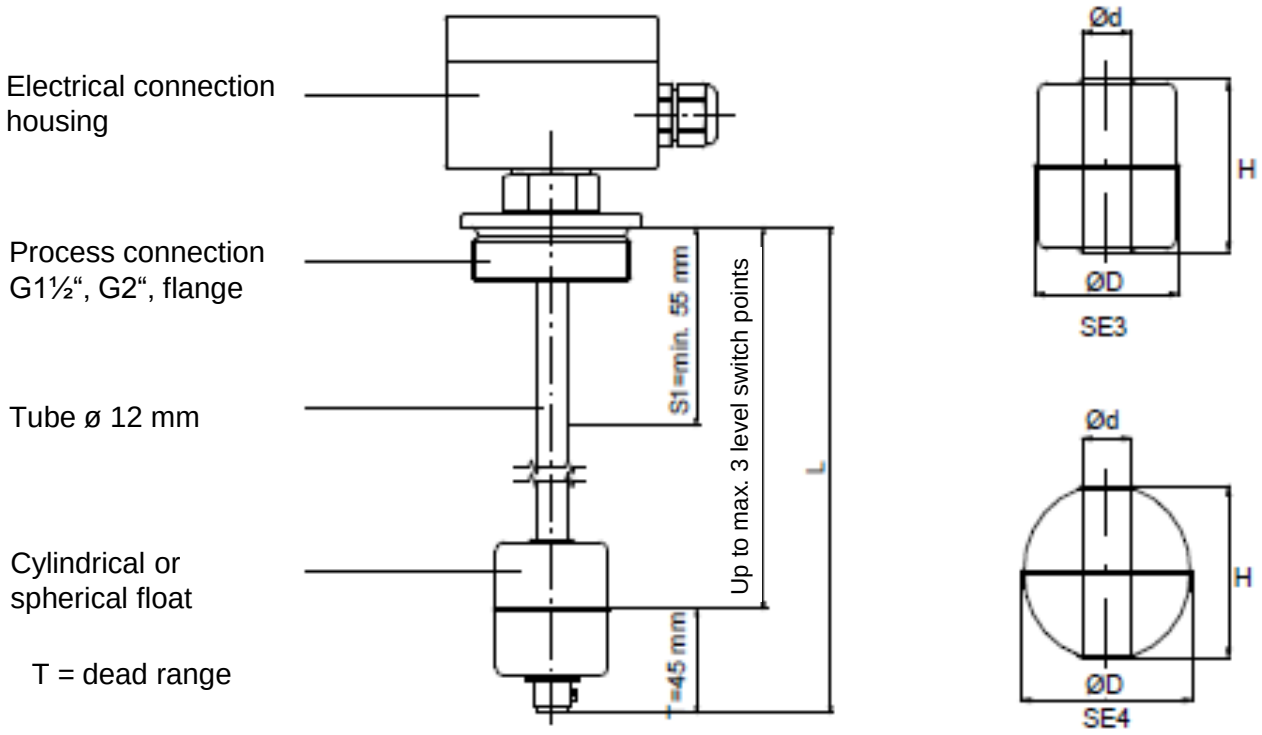
Dimensions



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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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
Temperature switching points		
Switching capacity	250 V AC 2,5 A; 60 V DC 1 A; (min. 50 mA)	
Switching function	Normally closed / normally open:	
Measuring element	Temperature switch	
Temperature range	+50°C to +150°C, selectable in 5 °C increments	
Switching accuracy	±5°C	
Switching hysteresis	±20°C	

Technical data			
Mounting position	vertically, ±30°	Max. pressure	4,0 MPa
Medium density	≥750 kg/m³	Tube length L	Standard: to 6000 mm >6000 mm on request
Medium temperature	-30°C to +150°C	Protection	IP 66
Housing	Aluminum 75 x 80 x 57 mm Aluminum 58 x 64 x 36 mm Polycarbonate 80 x 82 x 55 mm	Process connection	Standard: G 1½“, G 2“, Flange DN50 PN16, Other versions on request

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

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