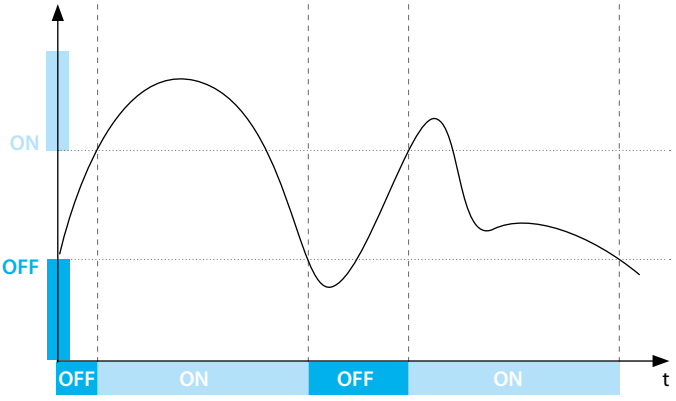
RFSLT-S3 | Wireless hydrostatic level sensor

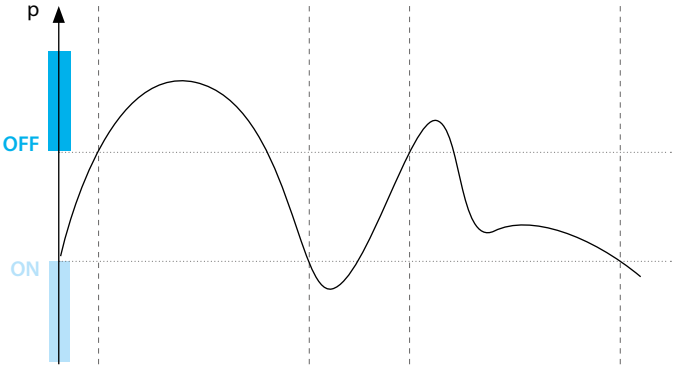
EAN code:
8595188183994

- It measures the level of liquids based on the principle of hydrostatic pressure measurement.
- It consists of a communication unit in a plastic case with IP65 protection placed above the surface and a stainless steel pressure probe connected by a cable lowered to the bottom of the tank.
- The standard length of the probe cable is 3m or 9m.
- The unit communicates wirelessly via the RFIO2 protocol with the devices of the iNELS RF Control system and is powered by a 3V6 lithium battery. The range of the switching actuators from the unit is determined by the building/location, in open space it is normally 200 meters.
- The unit can also communicate with the eLAN-RF-103 gateway, which conveys level information to the iNELS application.
- In the application, it is possible to manage switching actors, edit notifications, continuously monitor the level, pressure, temperature and battery discharge status in the unit.
- The unit itself is set up via the iSonda application from an Android/iOS smartphone via the Bluetooth interface (LowEnergy, 4.1 and higher).

Technical parameters	RFSLT-S3
Power supply:	Battery (lithium cell, 3V6-AA-LS)
Input	Pressure sensor with digital connection
Probe cable length:	standard 3m
Measuring range:	standard 0-3m H_2O (other by agreement)
Measurement frequency:	1x / min
Output	
Relay:	up to 6 relays
Alarm:	wireless relay
Output update frequency:	1× min (only when changing the level)
Accuracy:	± 0,5%
Time response:	≤ 100ms
long-term stability:	≤ ± 0,2 % span / year under reference conditions
Mechanical stability:	
vibrations	10g, 25 Hz...2 kHz
shocks	100g / 1ms
Electrical resistance	
Short circuit protection:	permanent
Reverse polarity protection:	approx. 1 year (according to ambient temperature cycling)
Electromagnetic compatibility:	radiation and immunity to interference according to EN 61326
Control	
INELS standard	
Communication protocol:	RFIO2
Frequency:	866–922 MHz (for more information see p.72)
Repeater function:	no
Manual control:	application
Range:	in open space up to 200 m
Minimum control distance:	20 m
Bluetooth	
Communication protocol:	Bluetooth Low Energy
Frequency:	2,4GHz
Repeater function:	no
Manual control:	application
Range:	in open space up to 50 m
Other data	
Operating temperature:	–20 to +40 °C
Working position:	any
Mounting:	screws
Protection:	IP65, probe IP68
Recommended power cable:	The sensor including the cable is included in the package
Dimension:	136 x 62 x 34 mm
Weight:	150 g
Standards:	EN 60730, EN 63044, EN 300 220, EN 301 489, EN 300 328

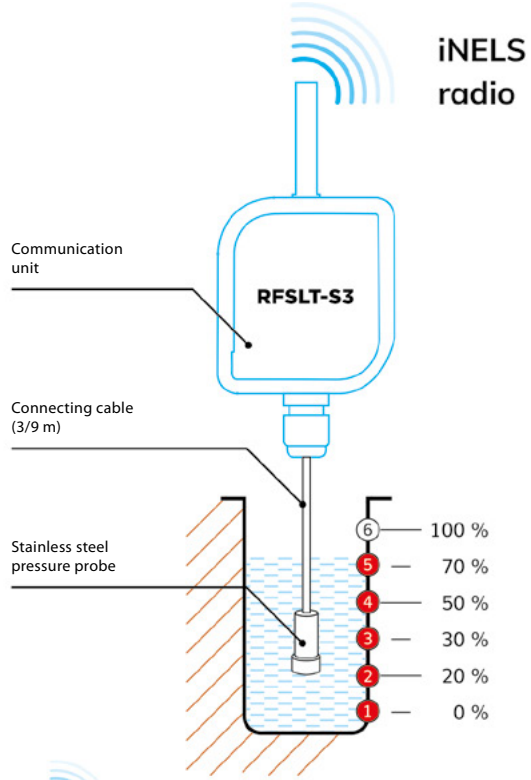
Function

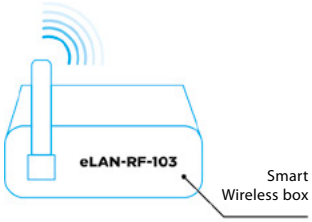


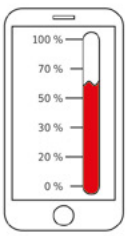


Materials (in contact with the medium)

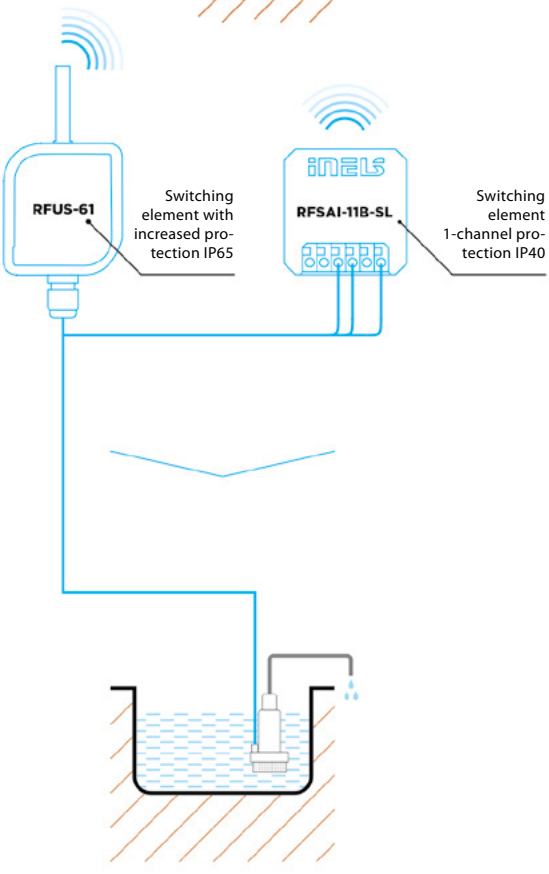
Housing:	stainless steel 1.4301 (304)
Seal:	FKM
Membrane:	stainless steel 1.4435 (316 L)
Cable jacket:	PUR



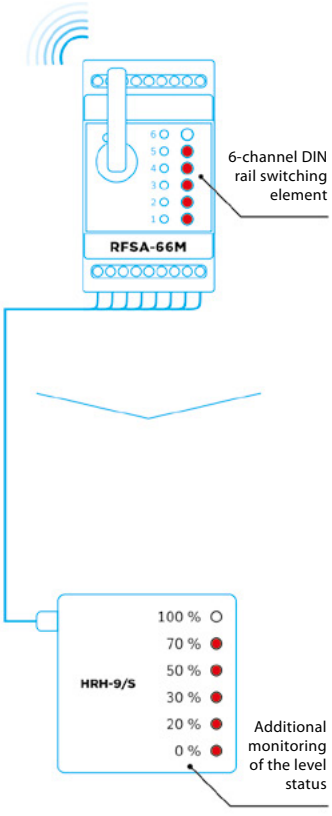




Signaling via the application on the phone



Control of 1 pump: **RFSAI-11B-SL, RFUS-61**
Control of 2 pumps: **RFSA-62B-SL**



Control/signaling, 6× output
(eg: MAX / MIN / CRITICAL MAX / CRITICAL MIN)