LEVEL SWITCH SMMR with special float for water detection

The SMMR level switches are custom-built to each customer's particular needs in size and operation, allowing automated control of the filling and emptying of one or more tanks.

- This system work with fluids such as gasoline, oil, water, milk, etc.
- This panel controls can activate or control pumps, solenoid valves, optical and acoustic alarms.

With an extra special float added, the system will be able to inform about water coming into the oil tank.

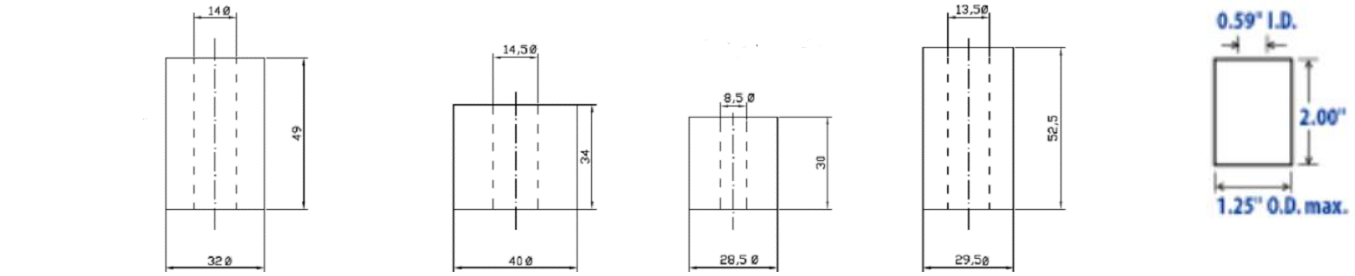
Models:

Standard versions, including - probe up to 1 mt. length, - butyl float, - 2"thread connector to tank	**SMMR 1:** one voltage-free relay Safety max.& min. level control.	**SMMR 2:** two voltage-free relays	**SMMR 3:** thee voltage-free relays	**SMMR 4:** four voltage-free relays
Standard Version (rigid probe)	23060000010010	23060000020010	23060000030010	23060000040010
Version with flexible probe	23060000010012	23060000020012	23060000030011	23060000041211
EeXd version	23060000011211	23060000021211	23060000030012	23060000041212
Extra length of 20 cm for SMMR probe	23060009010010			
SMMR 2 -W for water on diesel detection	23050010402598			
E Type float for water on diesel detection	00230004125295			

Technical Data

SMMR control box	**SMMR probe**
Code: 23060002010010 (SMMR 1)	**Code:** 23060001010010 (SMMR 1)
Power: **100 / 230 Vca 50/60 Hz** (12/24/48 Vcc/Vca under request)	Power: 12 to 24 Vcc / Vca 50/60 Hz 230 Vca available under request
Free voltage relay output (1 to 4, depending on model)	Max. intensity: 1 mA a 500 mA
Max. power (W max.): 2,75 W	Max. power (W max.): 12 VA
Metal enclosure, **IP 20** rated, (other enclosures available)	IP-65 for head and probe assembly Probe tube material: Stainless steel AISI 304 (316 Ti / Li available under request) Float fixation stopper: AISI 316 stainless steel
Size: 155x110x80 mm:	Tube diameter: 13 mm (8mm available under request)
Operation temp.: -10 ºC to +50ºC	Operation temp.: -10 ºC to +90ºC -10 ºC a 125 ºC available optional
1 contact relay: 5 Vcc coil Max. int. contact 5 A 250 Vca	Connection: **2" BSP** brass (available in NPT bronze). Other available alternatives: 1-1/2", 1-1/4", 1", flanged, stainless steel,…)
2 contact relay: 5 Vcc coil Max. int. contact 8 A 250 Vca	Contact types (TBD): N/C, N/O, switch contact

Float types: **A: Butyl** B: SS AISI 316 TI Type C: AISI 316 TI Type D: Polyamide Type E: Water detection (SG=0.95)



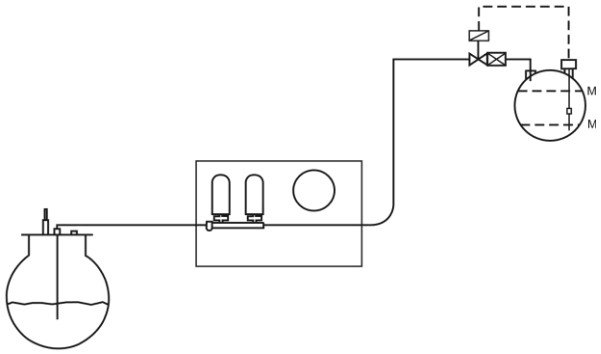
Distance limits for switching point:

- From probe connection to maximum (HH) contact: 50 mm (for other please consult)
- Between contacts 80 mm (for other please consult)
- From end of probe to maximum lower (LL) contact 50 mm (for other please consult)

APPLICATIONS / EXAMPLES

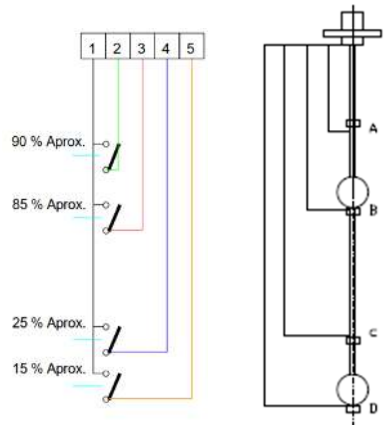
Filling of a tank by means of the level switch

As the liquid level drops to the minimum level, the solenoid valve opens, triggering the in activation of the pressure system, which fills the tank until the liquid level reaches the maximum level, which then closes the solenoid valve.



Remote control of various locations of the tank

When the tanks level increases or decreases, the microswitches begin closing successively, sending signals to the controller to make the appropriate adjustments.



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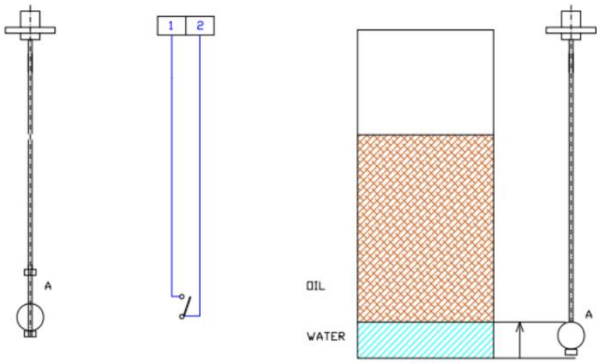
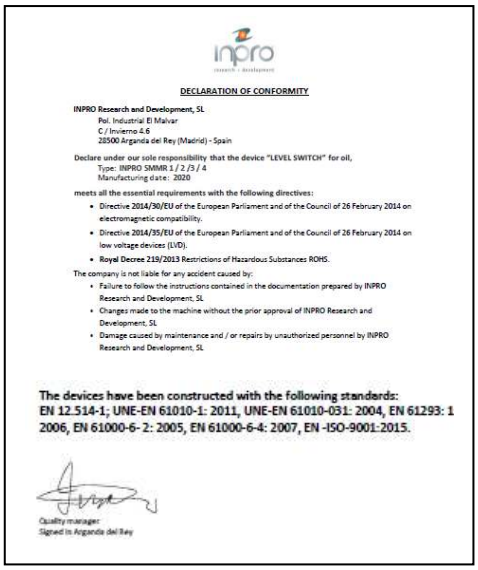


Detecting water entrance in an oil tank

When water level rises to point A, contact between connection 1 and 2 closes, sending a signal to the panel.
The position of A is adjusted according to customer needs.



inpro research + development

DECLARATION OF CONFORMITY

INPRO Research and Development, SL
Pol. Industrial El Malvar
C / Invierno 4.6
28500 Arganda del Rey (Madrid) - Spain

Declare under our sole responsibility that the device "LEVEL SWITCH" for oil,
Type: INPRO SMMR 1 / 2 / 3 / 4
Manufacturing date: 2020

meets all the essential requirements with the following directives:

- Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on electromagnetic compatibility.
- Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on low voltage devices (LVD).
- Royal Decree 219/2013 Restrictions of Hazardous Substances ROHS.

The company is not liable for any accident caused by:

- Failure to follow the instructions contained in the documentation prepared by INPRO Research and Development, SL
- Changes made to the machine without the prior approval of INPRO Research and Development, SL
- Damage caused by maintenance and / or repairs by unauthorized personnel by INPRO Research and Development, SL

The devices have been constructed with the following standards:
EN 12.514-1; UNE-EN 61010-1: 2011, UNE-EN 61010-031: 2004, EN 61293: 1 2006, EN 61000-6- 2: 2005, EN 61000-6-4: 2007, EN -ISO-9001:2015.

Quality manager:
Signed in Arganda del Rey

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