

**OPERATING METHOD:**

Operating method is based on use of electrodes, that make contact when are covered with electroconductive liquid. The simplicity of measurement method determine the low price at high reliability for these type of level probes.

**TECHNICAL DATA:****Function of controllers:**

a ) alarm signalization

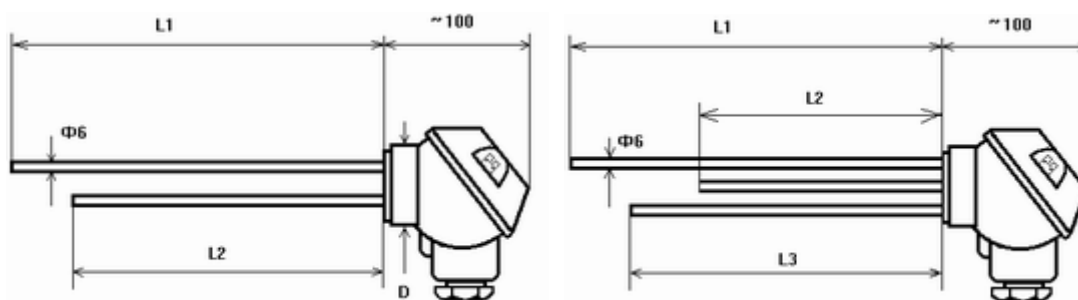
FUNCTIONAL DIAGRAM	FUNCTION	DESIGNATION	CONNECTION
	Switch on N.O. contact 15 - 18 at low level when:  $L < L_{min}$		Alarm contact  Power supply  Sensors 
	Switch on N.O. contact 15 - 18 at high level when:  $L > L_{max}$		Alarm contact  Power supply  Sensors 
	1. Switch on N.O. contact 15 - 18 when level is:  $L > L_{max}$  2. Switch on N.O. contact 25 - 28 when level is:  $L < L_{min}$		Alarm contact  Power supply  Sensors 

## b) control of pumps for filling / emptying of vessels

FUNCTIONAL DIAGRAM	FUNCTION	DESIGNATION	CONNECTION
	Maintain level $L$ between  $L_{min}$ and $L_{max}$  by control of a pump in <b>vessel filling</b> mode.		Pump  Power supply 
	Maintain level $L$ between  $L_{min}$ and $L_{max}$  by control of a pump in <b>vessel emptying</b> mode.		Sensor 

<b>Power supply:</b>	24 V AC; 220 V AC
<b>Power supply on probes:</b>	15 V AC
<b>Power consumption:</b>	Max. 3 VA
<b>Outputs:</b>	1 switching or 1 switching + 1 N.O. contact
<b>Sensibility control:</b>	by potentiometer
<b>Outputs electrical characteristics:</b>	4 A, 250 V AC
<b>Indication for output relay condition:</b>	LED
<b>Controller dimensions:</b>	
- version with IP 20:	45 x 70 x 105 mm
- version with IP 55:	125 x 85 x 60 mm
<b>Operating conditions for controller:</b>	
- temperature:	( 0 ... +50 ) °C
- relative humidity:	up to 80%
<b>Controller mounting:</b>	
- version with IP 20	M4 screw or DIN-rail
- version with IP 55	M4 screw on wall
<b>Protection system of controller:</b>	IP 20 or IP 55
<b>Probe dimensions:</b>	L = ( 0 ... 2000 ) mm

When the length of vessel is more then 2000 mm the level probes have to be mount not on top of the vessel. The better way of probes mounting is perpendicular outside of vessel.



<b>Protection system of probes:</b>	IP 65
<b>Electrodes material:</b>	Φ6 stainless steel № 1.4571
<b>Operating temperature for level probes:</b>	( -25 ... +160 ) °C
<b>Availability of probes for vessels with high pressure ( up to 6 bar ):</b>	“Sparking plug” probes type stainless steel Φ3, 150, 300 or 500 mm