

<b>HEMOMATIK</b> Sweden		Liquid level switch		Art. nr.	HMDHI-00		
		O=..... mm		Drawing nr.	HMDHI-00	Rev. 2	
Approved	P.L. 930517	Scale	1:2	Date	930330	Sign.	MEM
		O=..... mm		Rev. date	010827		
		For switchpoints .....mm, see label					



**APPLICATION**

For sensing off liquid levels to activate pumps or valves via relays or PCs, a floatswitch works equally well with conductive as with non-conductive fluids such as oils.

**WORKING PRINCIPLE**

The float contains a magnet. It follows the fluid along the stem. The stem is a non magnetic material with 1 to 5 built-in reedswitches.

The magnet activates each reedswitch for approx. 10 mm. This is called a passing switch. To assure that the contact status remains unchanged the stem is provided with a stop ring below respectively above the float. This allows to determine whether the level is rising or falling.

**We have chosen to define the contact status with empty tank and with the thread mounted in the upwards position.**

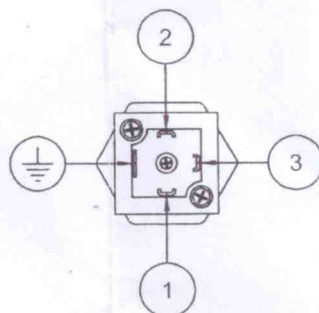
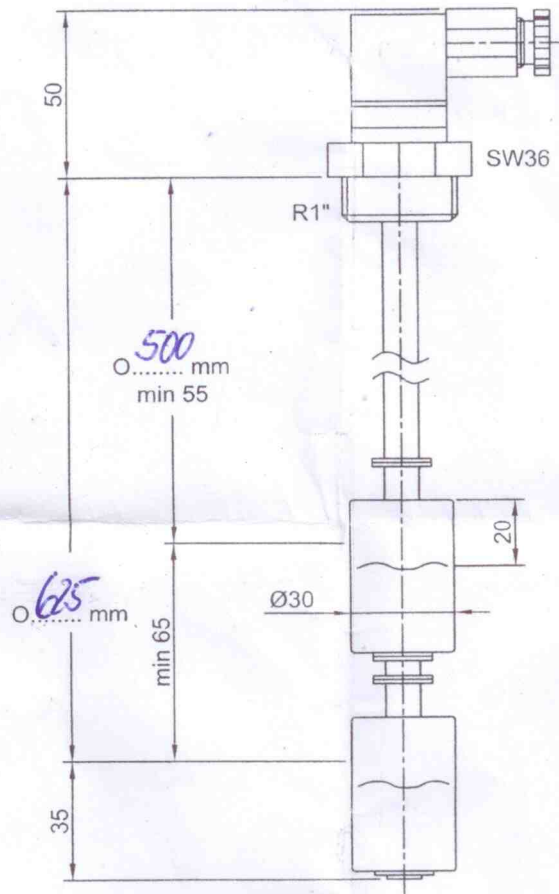
**MATERIALS**

Stem : Brass  
 Float : Buna-N (nitrofuel)  
 Fitting : ABS  
 Connector : DIN 43650  
 Temp. max : Oil +100°C, Water +80°C

**CONTACT SYMBOLS**

S = means NC low, NO going upwards  
 O = means NO low, NC going upwards  
 V = change over

Ground 2 1 3



■ = Switch closed

□ = Switch open

**ELECTRICAL DATA**

Contact rating *	80 VA
max voltage	250 V
max current	1,3 A

\* = resistive load  
 No ground = max 50 V

Note. Above values are for resistive loads. Mechanical life is 30 millions. Use series resistor for lamp load, or other suitable protection for inductive loads if the rating is higher than 1/10 of the values above.