

**HEMOMATIK**  
Sweden

Liquid level and temperature switch

Art.nr. HMC-OT

O=..... mm

Drawing nr. HMC-OT

Rev. 5

Approved P.L. 000331

Scale 1:2

T=70°C

Date 921016

Sign. MEM

For switchpoint .....mm, see label

Rev. date 010827



**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 aprox. 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)  
Fittings : ABS  
Cable : 2m / PVC 4x 0.5mm<sup>2</sup>

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

**TEMPERATURE SWITCH**

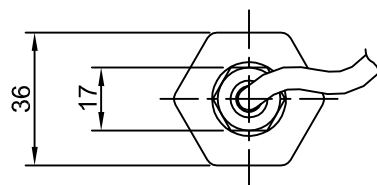
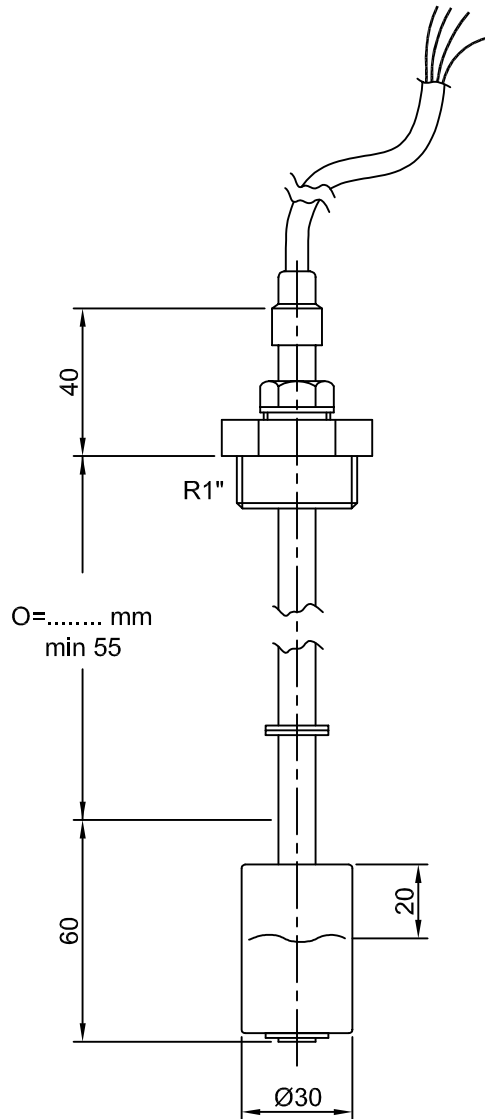
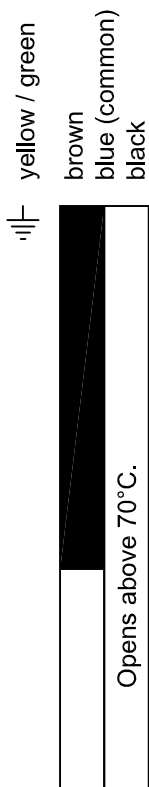
Level sensors may be equipped with built in over-temperature protection, if specified. Standard temperature switches open above +70°C and reset at +50°C. Other temperature settings or closing of contacts and tighter tolerances upon request.

**ELECTRICAL DATA**

Contact rating *	80 VA
max voltage	300 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.



■ = Switch closed

□ = Switch open