

HEMOMATIK Sweden		LAKEUDEN HYDRO OY	Art.nr. HFNI-080305	
Liquid level and temperature switch			Drawing nr. NI080305	Rev. 0
Approved P.L.080311	Scale 1:2	O= 500mm, TSO=70°C	Date 080310	Sign. MEM
			Rev. date	



SPECIAL :
Potted only at the bottom of the tube,
customer sometimes cuts the level switch.

Gjutes endast i botten, kund kortar ibland
nivåvakten.

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 : POM
Cable : 2m / PVC 3x0.5mm²
Temp. max : Oil +100°C, Water +80°C

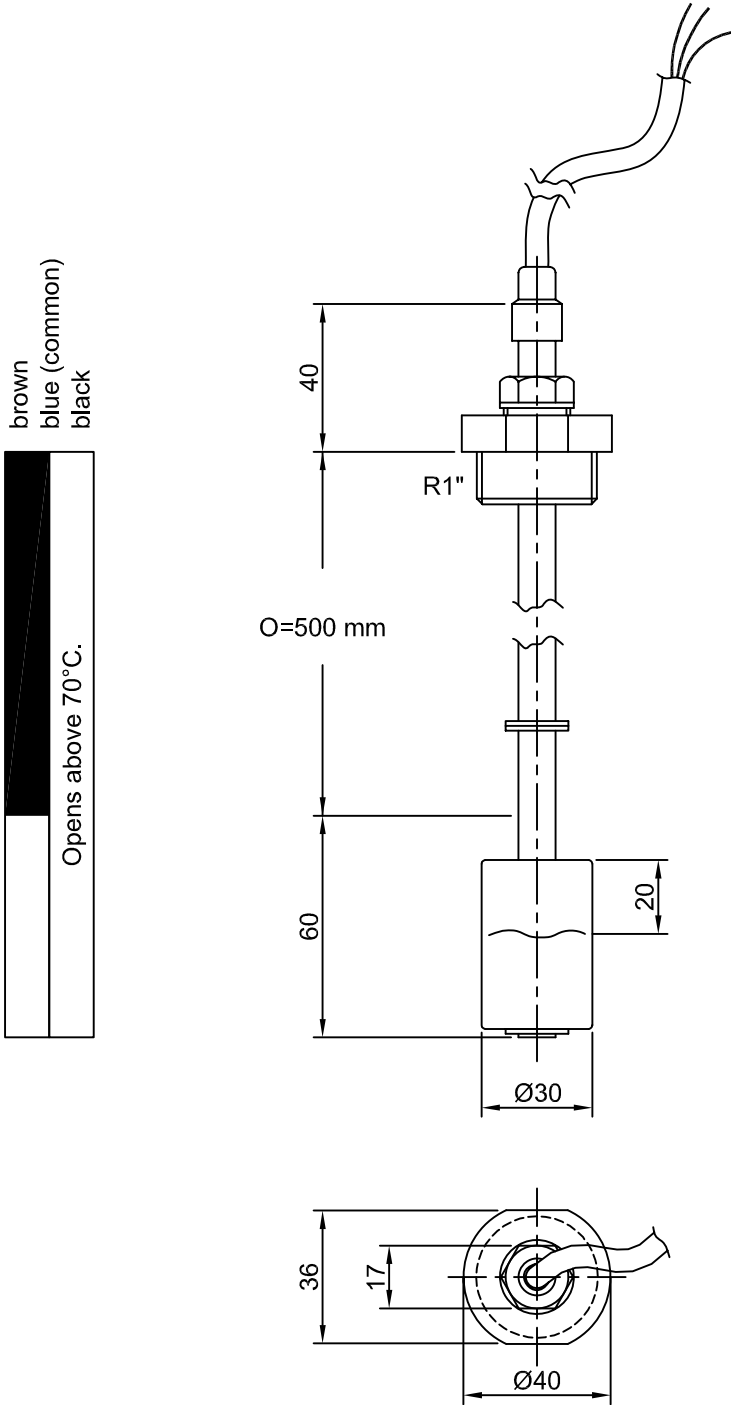
CONTACT SYMBOLS
S = means NC low, NO going upwards
O = means NO low, NC going upwards

TEMPERATURE SWITCH : TSO
Temp ±5°C, reset differential 10°C max.
max 10W, resistive load.

ELECTRICAL DATA

Contact rating *	10 VA
max voltage	50 V
max current	1 A

* = resistive load
No ground = max 50 V



Legend:
brown = Switch closed
blue (common) = Switch open
black = Switch open

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.