

HEMOMATIK

Sweden

Liquid level switch

Art.nr.

HMFB-SOTIMINUS20-100

S=..... mm O=..... mm

Drawing nr.

see above

Rev.

2

Approved

P.L. 140925

Scale

1:2

Temperature -20-100°C, 4-20mA

Date

140925

Sign.

MEM

For switchpointmm, see label

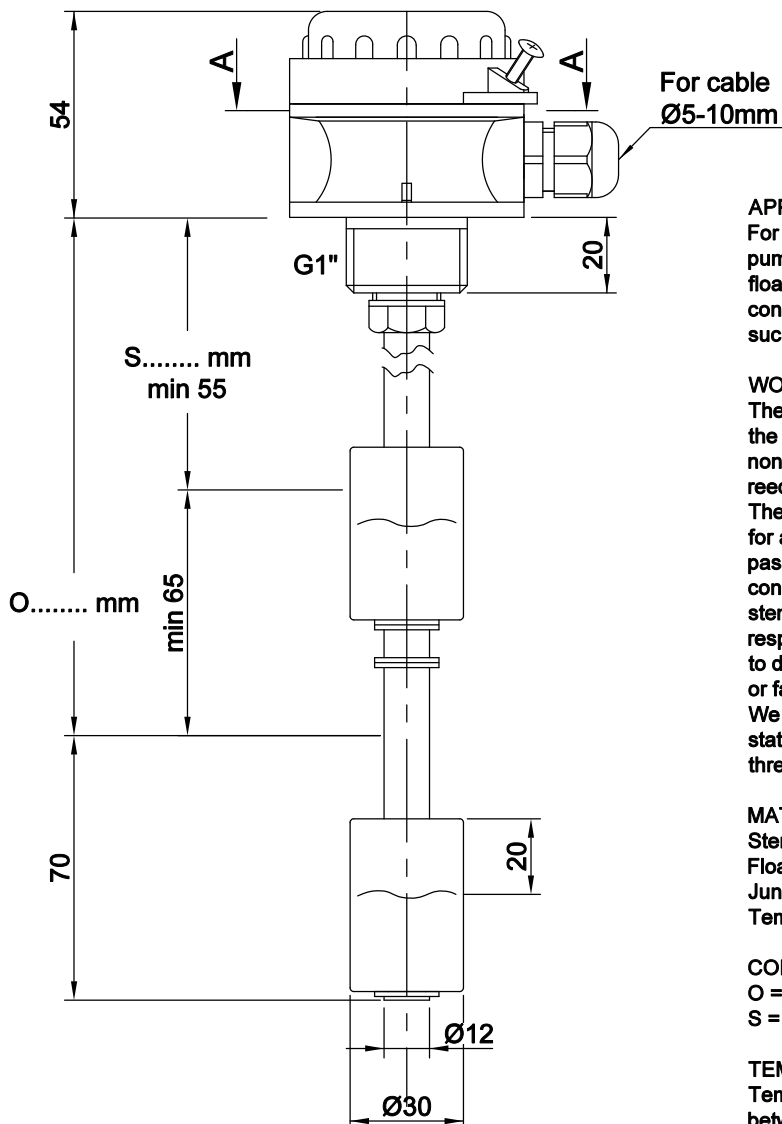
Rev. date

171102

1 2 + - 3 4 5 6



Analog output -20°C : 4mA, +100°C : 20mA



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)
Junction box : Polyamid 6
Temp. max : Oil +100°C

CONTACT SYMBOLS

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

TEMPERATURE SENSOR

Temperature range
between -20°C..+100°C
This sensor gives 4mA at -20°C and 20mA at 100°C.

PROTECTION DEGREE

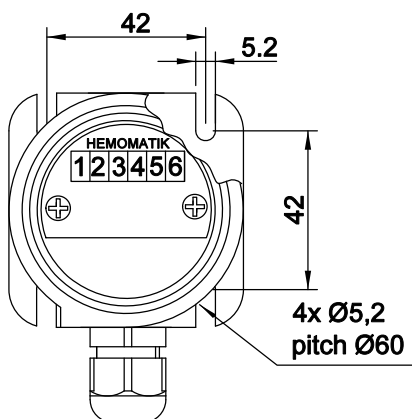
Junction box : IP67
Stem : IP68

ELECTRICAL DATA

Contact rating level *	50 VA
max voltage	50 V
max current	3 A
Supply voltage temp	10-30VDC
Output	4-20mA

* = resistive load

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.



Section A-A

■ = Switch closed

□ = Switch open