## HR-3121

## - limit value detection for liquids

- slim shape: high operational reliability even with slurries


## - narrow cylinder diameter: mounting

 possible with 1" BSP threaded hole-for applications directly switched on a PLC, contact inserts with gold-plated contacts are available

- choice of various cables and cable sheathing material


## Function:

A switch weight moves inside of the float casing along its longitudinal axis. By moving the casing about a pivot point formed by the cable attachment point, the moving switch weight operates the microswitch in the float casing.

## Order No.:

HR-3121 .
max. switching current:
$0.1(0.05) \mathrm{A}$ .. 1
3(1)A
.. 2

Cable and sheathing material, switching characteristics:
PVC special sheathing
high-flexibility ( $3 \times 0.75 \mathrm{~mm}^{2}$ ) ................................... 1 —
Neoprene sheathing
H 05 RNF ( $3 \times 0.75 \mathrm{~mm}^{2}$ ) $\qquad$
PUR cable yellow
high-flexibility ( $3 \times 0.5 \mathrm{~mm}^{2}$ )

Break switch:
PUR cable light blue, high-flexibility
$\left(2 \times 1 \mathrm{~mm}^{2}\right)$ open in up position $\qquad$ .. 7

Make switch:
PUR cable light blue, high-flexibility
$\left(2 \times 1 \mathrm{~mm}^{2}\right)$ closed in up position 8

## Dimensions:



## Terminal assignment:

## Cable colours <br> Float in "up"position

black-brown = contact open
black-blue = contactclosed

The float switch is either introduced through the side of the container from the outside using a cable gland $\geq 1^{\prime \prime}$ BSP or attached from above using a weight or a rod (e.g. float switch system).
The cable should always extend horizontally from the pivot point. The cable length between the fastening point and the float must be at least 50 mm .

## Technical Data

## Switching elements

Switching function
max. switching voltage
max. switching current
Switching hysteresis
Switching cycles

## Environmental conditions

max. medium temperature
max. pressure $\left(20^{\circ} \mathrm{C}\right)$
Specific gravity of the medium

## Mechanical

Float body
Cable

## Fastening

side, from outside
from above
Float switch system

## Accessories

Cable gland 1" BSP
PVC
Brass
Float weight
Float switch system
ball and microswitch
two-point/switch-over contact
AC 250 V , DC 250 V
0.1(0.05)A or 3(1)A
$18^{\circ}\left( \pm 6^{\circ}\right) / 5^{\circ}\left( \pm 3^{\circ}\right)$
$\geq 50000$
$343 \mathrm{~K}\left(+70^{\circ} \mathrm{C}\right)$
3 bar
$\geq 0.8 \mathrm{~g} / \mathrm{cm}^{3}$
dia. $29.2 \times 135 \mathrm{~mm}$, PP cylinder (mounting through 1" BSP threaded hole possible) see Order No.
minimum length $>50 \mathrm{~mm}$
with cable gland $\geq 1$ " BSP
with weight
with guide tube (see Data Sheet 3301)

HR-910822
HR-910821
HR-910101
see Data Sheet 3301

