

MANUAL
Dual Function Float Switch
Level & presence of water

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The AUTO DF B2P Levels Controller has been designed specially for the needs of the automotive industry - **its catalogue reference is MABEC**.

This is a dual function device:

- ❑ Detection of TWO liquid levels (e.g. oil),
- ❑ Detecting water present in the bottom of a tank (with extension, connection to an Electronic Conductive Level Sensor).

Functions & Introduction

See our **NF Manual**: Float Level Measurement & Detection, for float level detection

See our **NR Manual**: Conductive Level Detection, for detecting water present at the bottom of a tank

Specification

- **Material** : AU4G flange
: Brass rod
: Phenolic Resin or 316L stainless steel float
- **Reed contact** : Breaking power on resistive load
 - (80 VA) 0.3A, 230V AC
 - (80 VA) 0.6A, 127V AC
 - (48W) 1A, 48V DC
 : Hysteresis = 1.5 mm
- **Connection** : By Hirschmann GDM 309 socket
- **Installation** : Upright by Flange

Conditions of Use

- **Media** : mineral oil
- **Threshold working conditions**
 - : Density > 0.7
 - : Maximum temperature = 90°C

Dimensions - see diagram opposite

- Float bore = 35 mm
- **Ø Float** : 28 mm, 316L stainless steel.
: 25 mm, Phenolic Resin.
- **Length L** : Water level alarm
- **Length L1** : Low Level alarm
- **Length L2** : High Level alarm

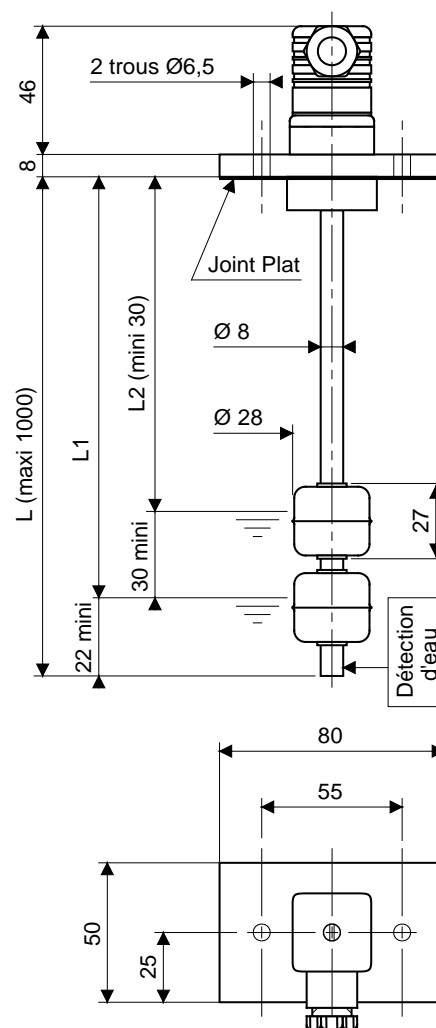
Standard reference tables

Model	Float		Lengths in mm			Code	Code
	Material	Ø in mm	L	L1	L2	Article	MABEC
AUTO DF B2P/R	Phenolic Resin	25	210	150	120	DF0776LSBE	X258181765
AUTO DF B2P/I	316L stainless	28	210	150	120	DF0776LSFC	
Extra length (in dm started)			*			DF0775.04 *	/

* On request, other lengths L, L1 and L2 within the limits defined in the "**Dimensions**" paragraph.

Subject to change without notice.

Dimensions



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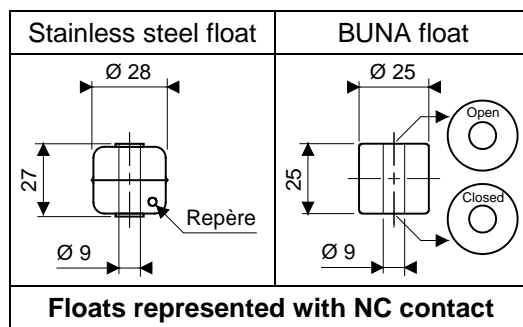
Installation

Upright on top of the tank.

To change the nature of the contact (NO or NC), return the float.

This may require the position of the stops to be adjusted:

- **Normally Open**: Closing by rising level.
- **Normally Closed**: Closing by falling level



Wiring

Detection of two levels

On the Hirschmann socket:

- Terminal 3: Common
- Terminal 2: High level
- Terminal 1: Low level

N.B.: Standard, Contacts NO - Closing by rising level.

Detection of water in the bottom of tank

For water detection, see also the DR52 and R7H manuals.

a. Water detection point connection

Connect the DR52 or R7H detector according to the wiring diagram opposite:

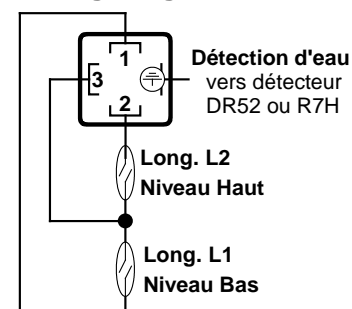
- DR52 detector for cabinet mounting.
- R7H detector for mounting outside cabinet.

b. Connecting the Reference

For a metal tank, ground of the tank to be connected to the Conductive Detector.

For a plastic tank, provide a ground electrode and connect to the detector and to Ground.

Wiring Diagram



Subject to change without notice.