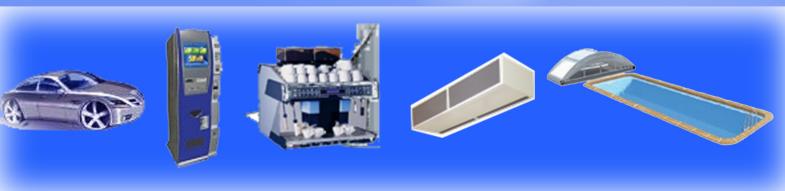
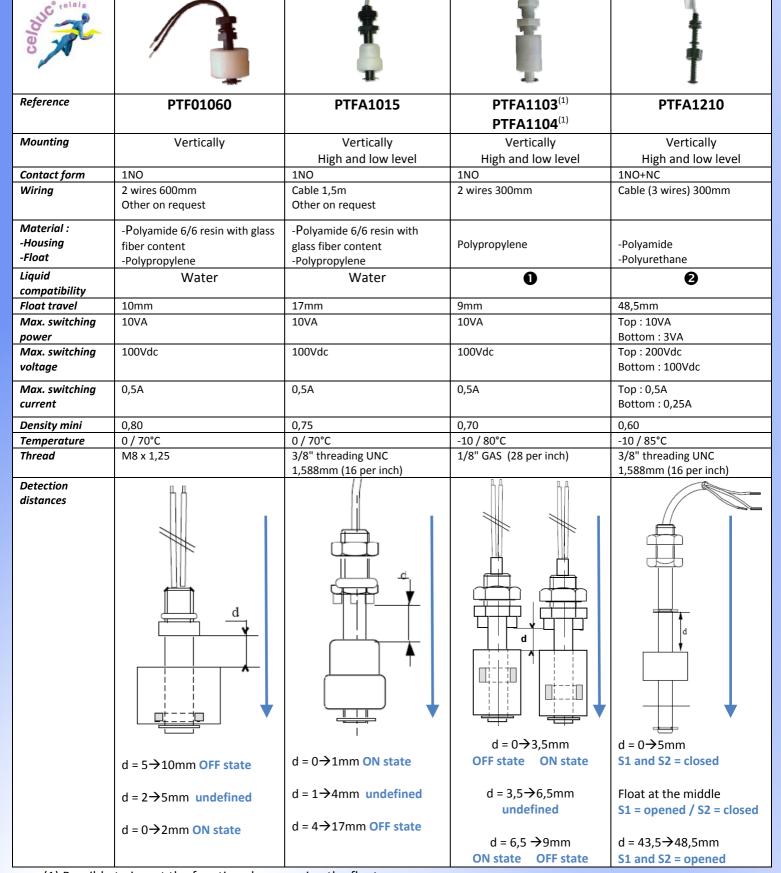
Level sensors

celduc relais offers a wide range of standard or specific level and flow sensors using Reed switches.









- (1) Possible to invert the functions by reversing the float
- (2) Available in ATEX version

WORKING PRINCIPLE

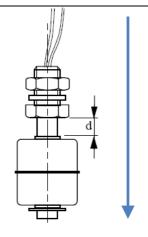
A float fitted with one or more magnets move with the liquid and actuates, thanks to its magnetic field, a Reed contact hermetically sealed located in the body.







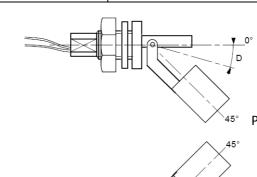
PTFA2115 ⁽¹⁾⁽²⁾	PTFA0100	PTFA0115	PTFA3115
Vertically High and low level	Horizontally External mounting	Horizontally Horizontally External mounting	
1NO	1NO	1NO	1NO
2 wires 1,5m Other on request	2 wires 175mm + MOLEX connector	2 wires 1,5m + connector	2 wires 1,5m
Stainless steel	Polyamide 30% glass fiber	Polyamide 30% glass fiber	Polyamide 30% glass fiber
6	0	2	0
8mm	50°	50°	50°
50VA	10VA	10VA	50VA
300Vac/dc	200Vdc	200Vdc	300Vac
0,5A	0,5A	0,5A	0,5A
0,75	0,60	0,60	0,60
0 / 100°C	0 / 85°C	0 / 85°C	0 / 85°C
M10 x 1	Specific	Specific	Specific



 $d = 0 \rightarrow 1 \text{mm ON state}$

d=1→5mm undefined

 $d = 5 \rightarrow 8,5 \text{mm OFF state}$



Possible to revert the functions

by reversing the sensor

 $0^{\circ} \le closed \le 10^{\circ}$ 10° < undefined < 35° opened ≥ 35°

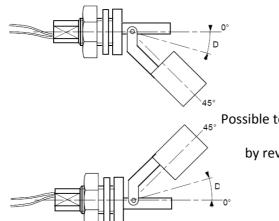
LIQUIDS COMPATIBILITY

- -compatible with acid: acetic, citric, formic, lactic, nitric diluted, phosphoric, sulphuric diluted; soda; alcohols: 0 ethanol, methanol, propanol; glycol; mineral oil; water
 - -not compatible with the following solvents: chloroforme, methylene chloride, trichloroethylene, toluene; hard acids -compatible with fuels, engine oil, kerosene, lubricaring oil, mineral oil, vegetable oil,
- 2 -not compatible with almost all acids, methylene chloride
 - -Acceptable resistance to water
- 3 Compatible with almost all the liquids except hard acids





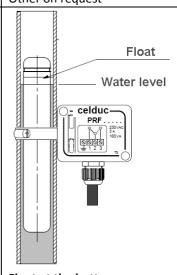
PTFA3315 ⁽²⁾	PTFA3415	PTFA3002	PRF10010
Horizontally	Horizontally External mounting	Horizontally External mounting	Vertically
1NO	1NO	1NO	Latching level sensors
2 wires 1,5m	Cable 1,5m	Cable 20m / R in series	
Polypropylen	Polypropylen	Polypropylen	Polycarbonate ABS (Acrylonitrile Butadiène Styrène)
0	0	0	Water
50°	50°	50°	No limitation (latching sensor)
50VA	50VA	50VA	100VA
300Vac	300Vac	300Vac	300Vac/dc
0,5A	0,5A	0,1A	3A
0,60	0,60	0,60	0,8
-10 / 100°C (Wires/85°C)	-10 / 100°C (Wires/85°C)	-10 / 100°C (Wires/85°C)	-20 / 85°C
M16 x 2	M16 x 2	M16 x 2	Suitable for tubes with Ø 32 to 40 Other on request



Possible to revert the functions

by reversing the sensor

O° ≤ closed ≤ 10° 10° < undefined < 35° opened ≥ 35°



Float at the bottom

- 1 2 = opened
- 2 3 = closed

Float at the top

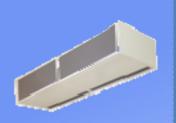
- 1 2 = closed
- 2 3 = opened

ADVANTAGES

- →One moving part
- \rightarrow The Reed contact is actuated by a magnetic field only : no contact so no wear
- →The Reed contact is completely isolated from the liquid so perfectly waterproof

The above advantages allow a safety use, repetitiveness, precision and minimum maintenance

APPLICATIONS



Heating

- -Air-conditioning
- -Heaters
- -Humidifiers
- =>To detect the water level in the tank



Domestic equipment

- Electronic flush-Solar systems
- =>To detect the water level

Food industry

- -Coffee machines -Vending machines
- => check the level of water left in the tank



Medical equipment

- -Sterilising equipment for medical instruments
- =>check level of water for steam or liquid detergent level





Water treatment

- -Water purifying-Desalinating
- => the sensors enable to know the level of the reserve of water



Swimming pools

- -Water treatment
- -Water heating
- =>water level and flow

Various industries

- -Photo lab equipment
- -Scrubber machines
- -Fuel dispensing systems



<u>Automobile</u>

- Detection of liquids levels:
- -radiator liquid level,
- -windscreen washer,
- -engine oil level,
- -brake oil level

...



celduc® relais,

expert in magnetic proximity sensors

If you look for a sensor for position, passage, presence, level or speed, we must have it in our range!

We can even design the ideal product for your applications (70% of our products is customised products) : contact celduc to get a personalised offer!









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