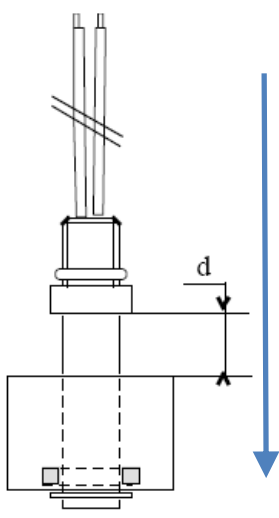
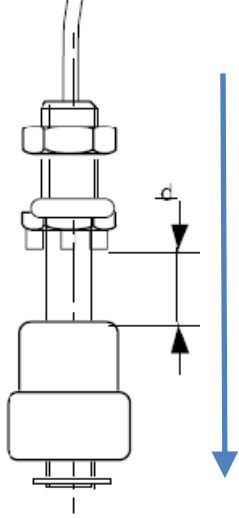
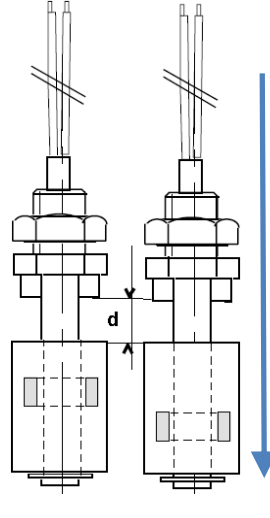
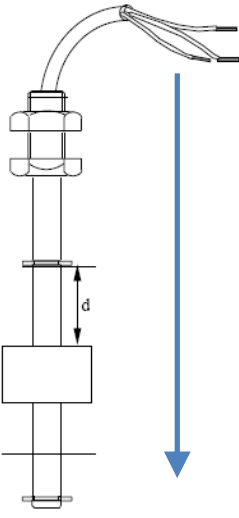





Reference	PTF01060	PTFA1015	PTFA1103⁽¹⁾ PTFA1104⁽¹⁾	PTFA1210
Mounting	Vertically	Vertically High and low level	Vertically High and low level	Vertically High and low level
Contact form	1NO	1NO	1NO	1NO+NC
Wiring	2 wires 600mm Other on request	Cable 1,5m Other on request	2 wires 300mm	Cable (3 wires) 300mm
Material : -Housing -Float	-Polyamide 6/6 resin with glass fiber content -Polypropylene	-Polyamide 6/6 resin with glass fiber content -Polypropylene	Polypropylene	-Polyamide -Polyurethane
Liquid compatibility	Water	Water	❶	❷
Float travel	10mm	17mm	9mm	48,5mm
Max. switching power	10VA	10VA	10VA	Top : 10VA Bottom : 3VA
Max. switching voltage	100Vdc	100Vdc	100Vdc	Top : 200Vdc Bottom : 100Vdc
Max. switching current	0,5A	0,5A	0,5A	Top : 0,5A Bottom : 0,25A
Density mini	0,80	0,75	0,70	0,60
Temperature	0 / 70°C	0 / 70°C	-10 / 80°C	-10 / 85°C
Thread	M8 x 1,25	3/8" threading UNC 1,588mm (16 per inch)	1/8" GAS (28 per inch)	3/8" threading UNC 1,588mm (16 per inch)
Detection distances	 <p>d = 5 → 10mm OFF state</p> <p>d = 2 → 5mm undefined</p> <p>d = 0 → 2mm ON state</p>	 <p>d = 0 → 1mm ON state</p> <p>d = 1 → 4mm undefined</p> <p>d = 4 → 17mm OFF state</p>	 <p>d = 0 → 3,5mm OFF state ON state</p> <p>d = 3,5 → 6,5mm undefined</p> <p>d = 6,5 → 9mm ON state OFF state</p>	 <p>d = 0 → 5mm S1 and S2 = closed</p> <p>Float at the middle S1 = opened / S2 = closed</p> <p>d = 43,5 → 48,5mm S1 and S2 = opened</p>

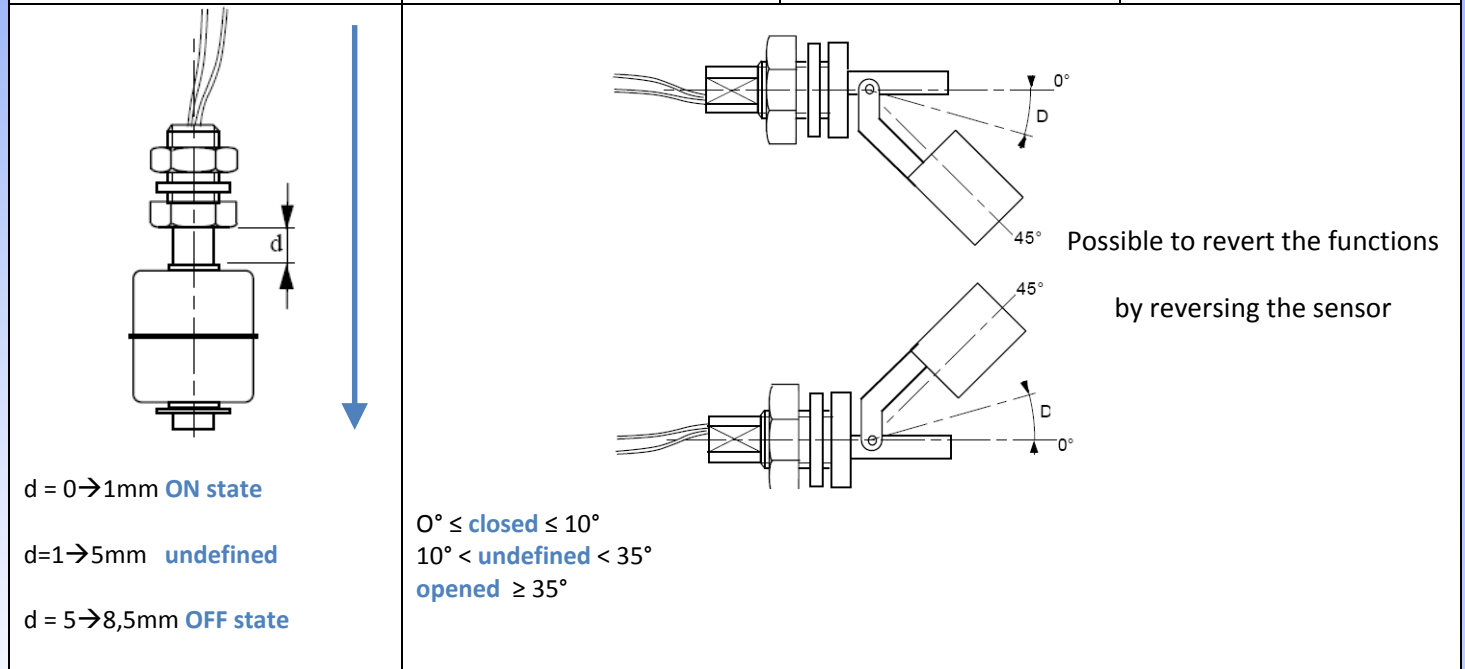
(1) Possible to invert the functions by reversing the float

(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 External mounting	Horizontally
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
3	2	2	2
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

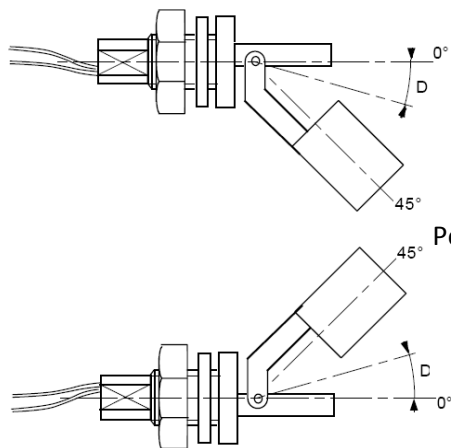


LIQUIDS COMPATIBILITY

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

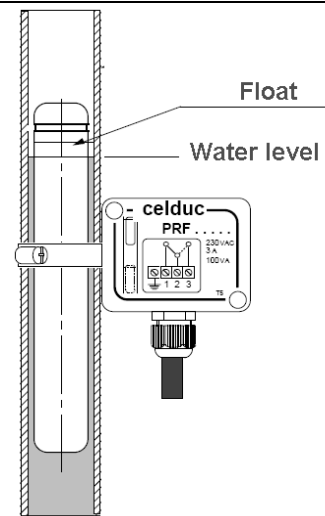


PTFA3315 ⁽²⁾	PTFA3415	PTFA3002	PRF10010
Horizontally	Horizontally External mounting	Horizontally External mounting	Vertically
1NO	1NO	1NO	Latching level sensors
2 wires 1,5m	Cable 1,5m	Cable 20m / R in series	
Polypropylen	Polypropylen	Polypropylen	Polycarbonate ABS (Acrylonitrile Butadiène Styrene)
1	1	1	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

0° ≤ **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
- 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



Automobile

Detection of liquids levels :

- radiator liquid level,
- windscreen washer,
- engine oil level,
- brake oil level

...

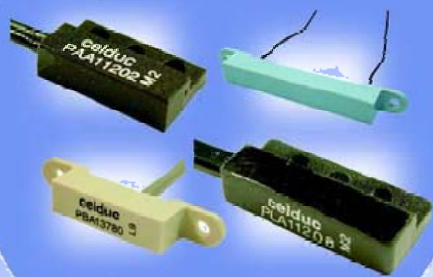


celduc® relais, expert in magnetic proximity sensors

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 !

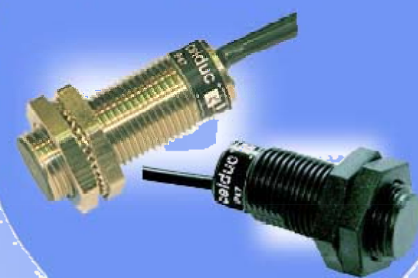
Screw
sensors



Tubular
sensors



Electronical
sensors



ATEX sensors



Level sensors



celduc® relais

5 rue Ampère – BP30004 – 42290 SORBIERS – France

Tel : +33 (0) 4 77 53 90 20 - Tel Export : +33 (0) 4 77 53 90 21

Fax : + 33(0) 4 77 53 85 51

celduc-relais@celduc.com

www.celduc-relais.com

