



- Piezoresistive measurement principle
- Long-term stable operation
- EMC and Reverse Polarity protection
- 4-20 mA or 0-10 V analog output
- Different level measuring between 1 meter and 100 meters
- IP68 protection class
- High quality
- Reasonable price, economical solution

PTL 110 level pressure sensors with piezoresistive working principle; are used for level measurement in applications like streams, reservoirs, water tanks etc. With its stainless steel housing with IP68 protection class, it can work in harsh environments.

Thanks to the surge voltage and reverse polarity protection, the PTL 110 series are unaffected by electrical fluctuations and reverse connections.

Optionally configurable pressure ranges, analog output and mechanical connection options offer solutions suitable for various applications.

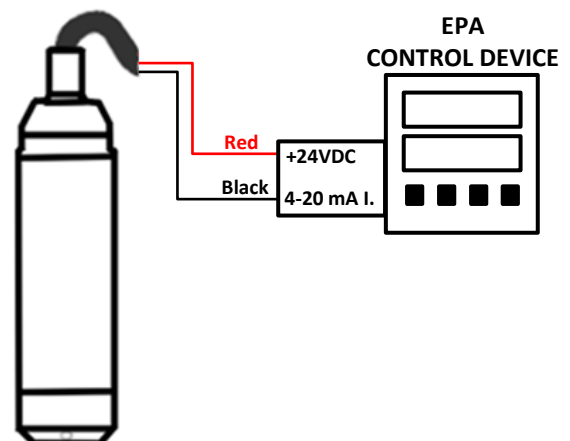
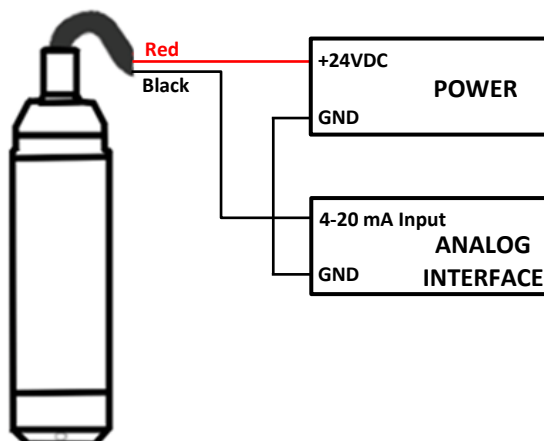
### TECHNICAL SPECIFICATIONS

<b>Measuring Range</b>	Different models between 100 mbar and 25 bar can be selected		<b>Electrical Connection</b>	3 x 0,22 mm <sup>2</sup> cable Cable outer diameter: 7,5 ±0,2 mm Drain pipe diameter: 2 mm (Cable length according to level value)
<b>Measuring Principle</b>	Piezoresistive			<b>Operating Temperature</b>
<b>Membrane</b>	1.4404 (AISI 316L)		<b>Storage Temperature</b>	
<b>O-Ring</b>	NBR			<b>Protection Class</b>
<b>Maximum Pressure</b>	%200 FS		<b>Material</b>	
<b>Precision</b>	%0,3			<b>Weight</b>
<b>Electrical Interface</b>	<b>Output Signal</b>	<b>Supply Voltage</b>	<b>EMC Protection</b>	
	0...10 VDC (3 wire)	12...30 VDC		
	4...20 mA (2 wire)	8...32 VDC		

### ELECTRICAL CONNECTION

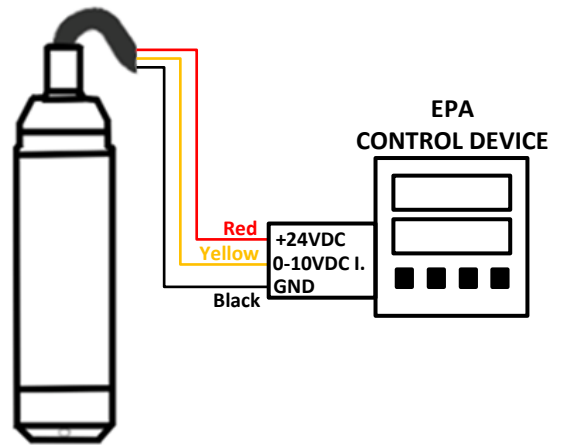
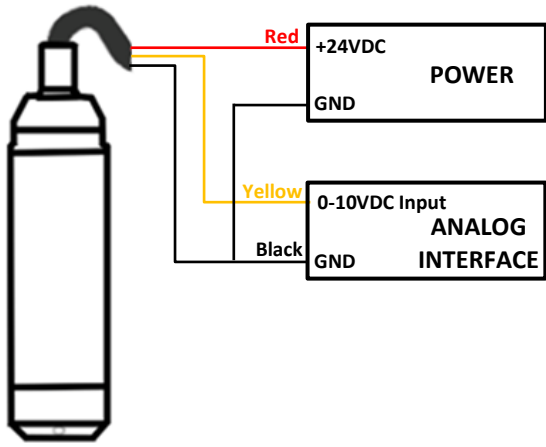
#### 4-20 mA Connection

Signal	Cable
+8...32 VDC ( + supply)	Red
4-20 mA	Black



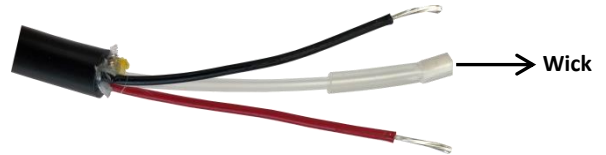
### 0-10 VDC Connection

Signal	Cable
+12...30 VDC ( + supply)	Red
GND	Black
0-10 VDC	Yellow



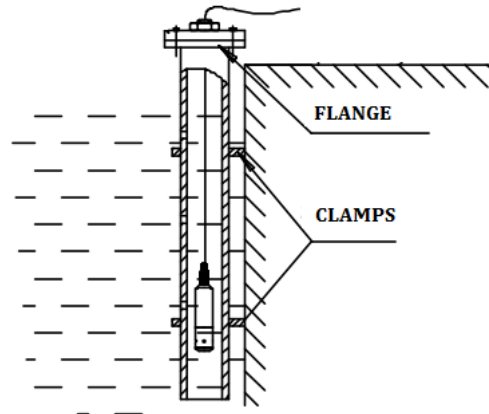
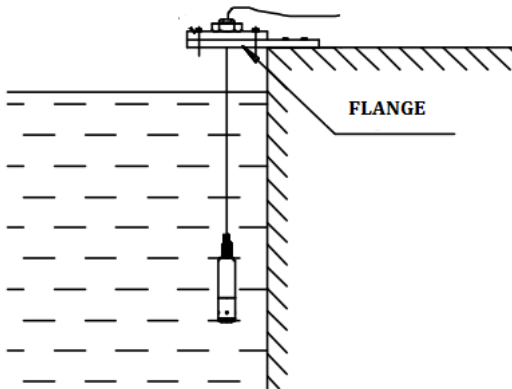
#### WARNING!!!

If the wick in the drain pipe is removed, the product will be out of warranty.

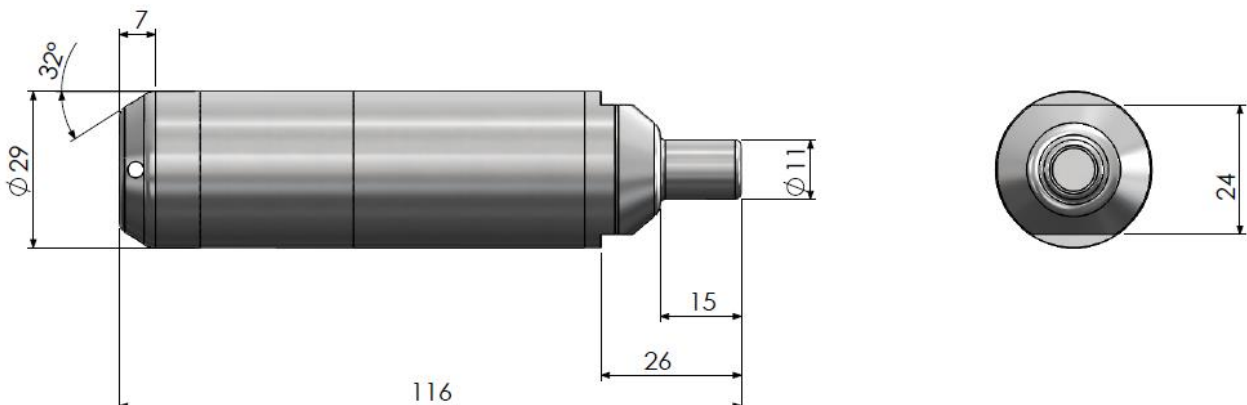


### SAMPLE APPLICATION

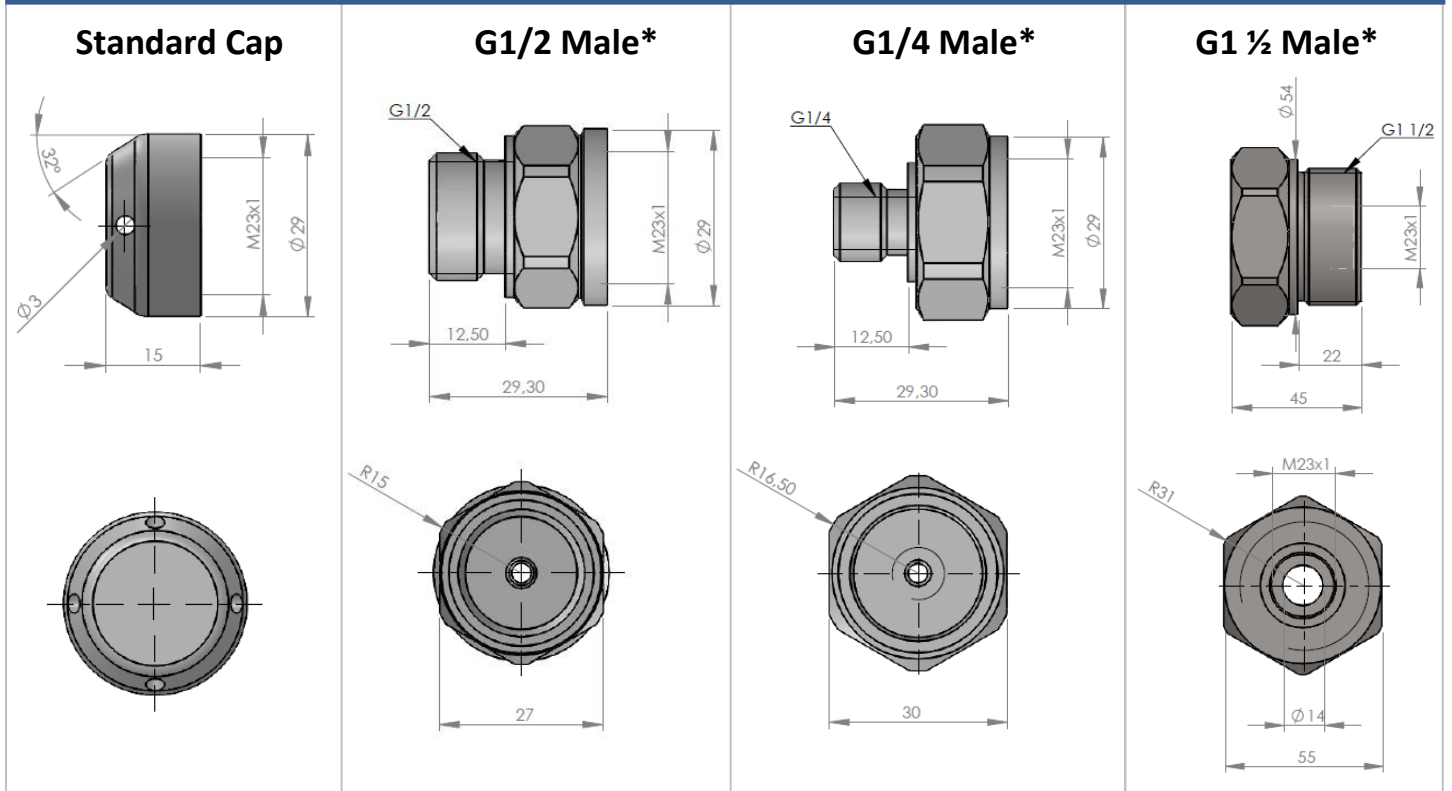
During the application, the product free submerge. Dams, rivers and streams of the product against a surge in applications should be suspended through the pipes.



### MECHANICAL DIMENSIONS (with standard cap) (in mm)



## MECHANICAL CONNECTION OPTIONS



Fittings marked with (\*) are optional.

## SAMPLE APPLICATION FIELDS

- Wells
- Water Tanks
- Lake Level
- River Level
- Reservoirs



## ORDER CODE

<b>Model</b>	PTL 110	-	X	-	XX	-	XX	-	XX	-	XXX
<b>Output Signal</b>	V : 0-10 VDC A : 4-20 mA										
<b>Pressure</b>	Different models between 100 mbar and 25 bar can be selected *( For water, 1 meter level = 100 milibar)										
<b>Cable Length</b>	5M : 5 meters 8M : 8 meters 10M: 10 meters * Must be selected 1 meter above the value to be measured in liquid level measurement										
<b>Mechanical Connection</b>	No Code : Standard Cap G1/4 : G1/4 Connection G1/2 : G1/2 Connection G1.1/2 : G1 1/2 Connection										
<b>Cable Type</b>	No code : PE (polythene)										

Product	Housing	Cable Material	O-Ring	Applications
PTL 110	1.4404 (AISI 316L)	PE (polythene)	NBR	Wells, water tanks, lake level, river level, reservoirs, grey waters, waste waters
PTL 120	1.4462 (dublex)	PE (polythene)	NBR	Sea water, saline water
	1.4404 (AISI 316L)			Wells, water tanks, lake level, river level, reservoirs, grey waters, waste waters
PTL 130	1.4404 (AISI 316L)	PTFE (polytetrafluorethylene)	Viton (FKM)	Oils and fuels