

Sensaras

PLS168 Series

Sound Steadfast Solutions

Made in the U.S.A.

Invasive Point Level System

Air-In-Line Sensor

Description

The Ultrasonic Point Level System 1680 Series is designed to non-invasively detect the presence or absence of liquid in a tube using Ultrasonic Technology to transmit and receive sound. There are no moving parts to the sensors. It is not dependent on the color, dielectric constant, density, viscosity of the liquid or the color, opacity and material of the tube. With an option of process fitting the sensor is easily installed and removes the variable of customer adjustment. The miniaturized electronics are built on the tube and encapsulated in an epoxy housing. The sensors can be built to any type of tube to detect the presence of bubbles or Air-In-Line that range in size from 6.3mm to 19mm. There is no calibration as each sensor is designed for the specific size tube, flow rate of the liquid, input and output of the user's specifications and requirements. Multiple points can be installed on the same tube. Consult Sensaras for sensors requiring a larger tube size.

Operation

The 168 Series unit consists of one or two piezoelectric elements mounted across a tube of material, outer diameter and wall thickness of the customer's specification. These elements convert electrical energy to mechanical energy in the form of an ultrasonic signal detecting the presence of liquid. The ultrasonic signal is attenuated with no liquid present and passes freely across the gap with the tube when liquid is present. The circuit detects the presence or absence of the ultrasonic signal and through a series of processing and filtering of the signal reliably determines the presence of bubbles and converts the signal to the desired output.

How to Order	PLS168-									_
Input:	24VDC -	0								Τ
Output:	Sink(NPN) Dry-									
	Sink(NPN) Wet-									
	Source(PNP) Dry-		0							
	Source(PNP) Wet-		1							
Mounting:	Integral -			1						
	Remote -			2						
Cable (remote)	: in feet -				01	Ì	Ì	Í.	Í.	Í.
	Pipe OD-				0.	25	Ì	Ì	Ì	Í.
Pipe ID-						0.	21			
Process connection -								1	Í.	Í.
No Connection - Male - Female- VCR								0	Ì.	Í.
								Μ	i.	i.
								F	Í.	Í.
									V	Í
	Pipe Material -									S

Applications

High Level / Overflow Alarm Low Level / Pump Protection Condensate Pots Sump Water / Oil Detection Lubricant Circulation Equipment Fill Machine Level Control Pump Leak Detection

Industries served

Upstream Oil & Gas Midstream Oil & Gas Water & Waste- Water Chemical & Petrochemical Pulp & Paper Food & Beverage Military, Subsea / Surface Maritime Shipping Inland Barges, ERC Cargo Semiconductor

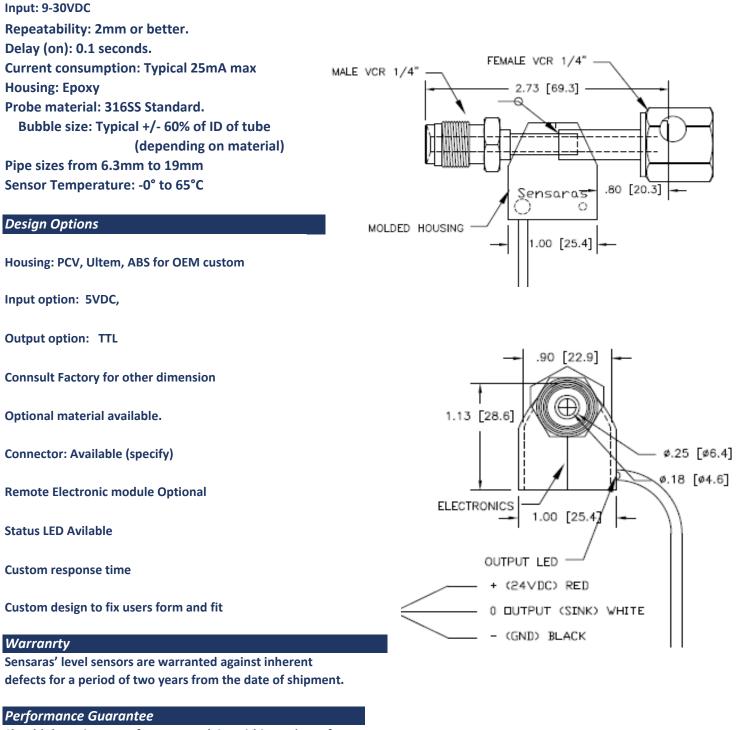
Sensor material 316LSS is standard, other materials available

CONSULT C A BRIGGS CO. FOR CUSTOMIZATION Sensor drawing will be sent to confirm design

Order from: C A Briggs Company 622 Mary Street; Suite 101; Warminster, PA 18974 Phone: 267-673-8117 - Fax: 267-673-8118 Sales@cabriggs.com - www.cabriggs.com

Specifications / Features

Dimensions



Should the unit not perform as we claim within 45 days of delivery and was properly installed consistent with our stated requirements and specifications Sensaras will gladly accept a return of the unit for a full credit.

Disclaimer: Due to technical progress all Data Sheets are subject to change without notice. Sensaras believes all information in this Data Sheet is correct but is not responsible for any inaccuracies. Sensaras is not liable for any damages. It is the customer's responsibility to install, operate and maintain products properly.

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